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AUGUST 19, 1922. 

Vol. XCVII.

THE "SAVARS"
CUBEB CIGARETTES

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### BRITISH MADE **SACCHARIN-MONSANTO**

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# Building Sales for You

DVERTISEMENTS like the one shown on this page are being read by women everywhere in Great Britain. They are appearing regularly in "The Daily Mail,"
"The Daily Mirror," and in women's periodicals like "Vogue," "Eve,"
"The Ladies' Field," "Tatler,"
"Sketch" and "Queen."

These are the sales-builders that are working for you to bring women to your counter to ask for Ingram's Milkweed Cream.

Ingram's Milkweed Cream is worldfamous. It has a larger sale than any similar preparation in the world. Its tonic quality makes it unique, for it actually "tones up" -revitalizes-the complexion as well as protects the skin.

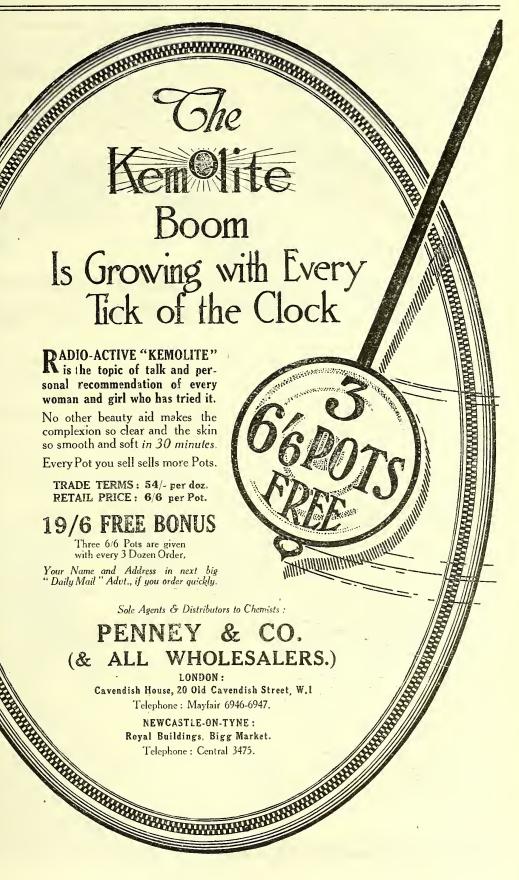




Ingram's Milkweed Cream is protected on the list of the P.A.T.A. at the following prices:

Minimum retail, 2.6 . . 22.6 per dozen.
5.- . . 45.- , "
The representatives for Great Britain are:
SANGERS. 258 Euston Road, N.W.1.

ngram's Milkweed





HERE is a novel competition that will appeal to all retailers who sell "GRIPS" First-Aid Pastilles. £200 in cash is offered for the best window displays of "GRIPS."

1st Prize - £50.

2nd Prize - £25.

3rd Prize - £10. 15 Prizes of £1.

10 Prizes of £5.

25 Prizes of £2,

There must be a thousand and one ways of displaying such an attractive proposition as "GRIPS." How would you do it? Would you prefer novel and original "stunts" on the weather, or the setting out of a particular scene, or an ingenious way of displaying tins, etc., etc. Show us your ideas for displaying "GRIPS" First-Aid Pastilles, and win one of these

big money prizes.

### Rules and Conditions Governing this Interesting Competition.

Only displays exhibited between November 1st and December 2 (both dates inclusive). will be eligible. Each display must be of not less than five days duration, and must include one full Saturday. Every competitor must fill in an Official Entry Form, and affix same to the back of the photograph of his display.

The First Prize will be awarded for what, in the opinion of the judges, is the best window display submitted, and the other prizes will be awarded to the next best in their order of merit, according to the judges' verdict.

In the event of more than one competitor sending in the same prize-winning display, we reserve the right to divide any of the prizes. All photographs entered for this competition become the absolute property of Messrs. J. W. Lightbown & Sons.

We accept no responsibility for any photograph lost or delayed. Proof of posting will not be accepted as

proof of delivery, but receipt of an entry form will be regarded as proof that the competitor was aware of, and has accepted, all these rules, failure to comply with which, in any particular, will disqualify him.

All entries must be sufficiently stamped and addressed

"GRIPS" COMPETITION DEPARTMENT, Commercial Advertising Service, Ltd., 54, Corporation Street, MANCHESTER,

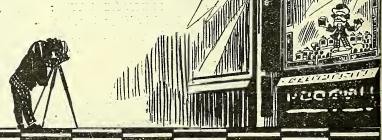
and posted in time to arrive not later than first post December 9th.

Intending competitors should write now to the above address for Official Entry Form and parcel, of advertising mate-rial, which they will find of considerable assistance when dressing their window

FIRST - AID PASTILLES are made by Lightbowns, of Accrington.

Agents for the Wholesale and Retail Chemists'

Thos. Christy & Co. 4-12 Old Swan Lane, LONDON



### NATION'S FOOD **EXHIBITION**

OLYMPIA, SEPTEMBER 6 to 26.

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Description of Van.-

mm or van.							
Maker's Descript	loa ,		***************************************	_			10-cut Delivery Var.
Chassis No			11		-		172047
Engine No							
	10.0		1964	111	**		167390
Sire of Engine (4	cylinder	,	***		14.4		3 tin x 4 m
RAC Rating			44.4	43.5		-	18.2
Size of Tyres (por	tumatic!		*11.5			144	31 m. × 4 m.
							Top 46 to 1
Gears (3 speeds a	nd rever	ser	***				2nd 9 25 to 1
_					. 1		11st, 17 , to 8
Engine new per	minute o	n top	gear at 20	m.p.h.	-		1033
Body							Light Van
Weight of van			141	100		100	Front axle. 87 cwts
_						1,00	(Back avie 96
Toras weight of s.						-	18,3 cwts.
Average Ned Idri	ver, pass	enger	and 74 c	wts. of b.	allast)		11.6
Average total vun	ming we	thi .				**	29.4

Object of Trial.—The object of the trial was to demonstrate general reliability, fuel, oil and water consumption

Description of Trial.—The trial was held between London, Land's End, Glasgow and London. The main points on the route were Sahsbury, Exeter, Penzance, Land's End, Taunton, Bristol. Gloucester Worcester Wellington, Preston, Lancaster, Carlulle, Glasgow, Penneth Wetherby, Doncaster, Granthom, Baldock and Harlifeld. The wealther throughout the trial, except for one day was hise and the roads on the whole were good. The van did not coast when descending hells.

Results of Trial—Distance.—The total distance covered was 1,264 miles.

Speed—The trial was run at a set average speed (running time only) of 198 m.p.h.

Cossumption.—Fuet: 28.2 miles per gallon (equivalent to 415 ton miles per gallon). Oil: 2892.4 miles per gallon. Water: 1 gallon, 3 pints, 14 ounces.

General.—No work other than replenishment, lubrication and greasing, was done throughout the trial and there were no involutary stops of the van upon the road except that caused by the collision of another which exist with the sam, when the bearing of the off front which was the was adjusted.

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Elst Saillie

Charman of Technical Committe

Pall Mall, London, S.W. 42th June, 1922

### WILLYS OVERLAND CROSSLEY, LTD.,

British Factory and Sales Dept.: HEATON CHAPEL, MANCHESTER. Showroom: 151-153 GREAT PORTLAND STREET, LONDON, W.I. London Service Depot: 111 LOT'S ROAD, KING'S ROAD, CHELSEA, S.W.

# Children's Tonic

R

Glycerine Extract of Red Bone Marrow (Armour)

Chemical Food (Syr. Ferri. Phos. Co.)

Fluid Extract of Malt

(of each equal parts).

Dose:

Under 5 years - One small teaspoonful.

Over 5 years - One teaspoonful.

To be taken in water three times a day after meals. (Ph.J. Formulary No. 7589. Page 880.)

# Glycerine Extract of Red Bone Marrow

(Armour)

Palatable combination of fresh raw marrow from the rib bones of young animals and chemically pure glycerine, containing haemoglobin, marrow cells, nucleins and other blood forming substances.

Supp'ied in 4-oz., 8-oz., 16-oz. bottles and Wr. Qts. (80 fl. ozs)

Gyc. Ext. Red Bone Marrow (Armour) is in the P.A.T.A.

ARMOUR AND COMPANY
LONDON.



# Thaimacettical & Photographic Products

(WHOLESALE QUANTITIES ONLY)

Ammon: Ichthyosulph:

Benzoic Acid. Lanoline.

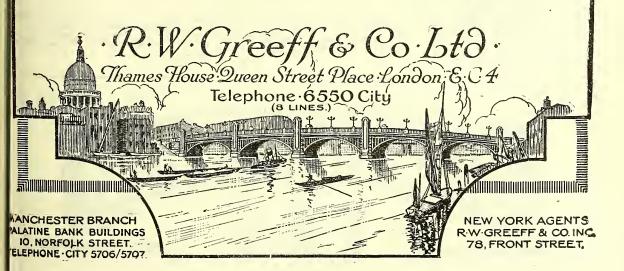
Bromides. Pepsine.

Calcium Lactate. Phenolphthalein.

Hexamine, Safrol.

Hydroquinone. Thymol Crystals.

Sugar of Milk.



# "FARRIS'S"

is the Real Old-fashioned Air-Bleached

# GENUINE BEESWAX

ABSOLUTELY PURE and ABSOLUTELY WHITE.

# "FARRIS'S" GENUINE YELLOW BEESWAX

is carefully refined and entirely free from dross of any kind. In slabs about 10 lb. each, also 1-lb., 4-oz., 2-oz., & 1-oz., rounds.

Celebrated for excellence and purity for upwards of three-quarters of a century.

FARRIS'S SPECIALLY REFINED PURE SPERMACETI, Refined MONTAN WAX fashioned kind). STEARIC ACID, CERASINE ALSO WAXES & OILS OF EVERY KNOWN KIND & FOR EVERY PURPOSE.

The only actual Manufacturing Wax Chandler in the City of London

### CHARLES FARRIS

Helmet Court, Wormwood Street, Bishopsgate, London, E.C. 2. (Entrance also between 77 & 79 BISHOPSGATE.)



### WM. WARNE & CO. LTD.

29 GRESHAM STREET, E.C. 2.
India Rubber Manufacturers,

Surgical, Chemical, Domestic Articles, Syringes, Water Beds, etc.



# TINS

### The NORTH LONDON TINWARE Co., Ltd.

Crondall Street, Hoxton, LONDON, N.1

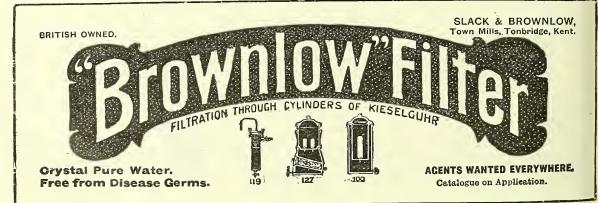
Manufacturers of

TIN BOXES and CANISTERS FOR INFANTS' FOOD, PETROLEUM JELLY, AND OTHER ARTICLES.

Round and Square TIN BOTTLES, PLASTER CASES, &c.

Cardboard Bexes and Composite Containers.

Telephone: 2466 Central.



# Maws

August 19th, 1922.



# Page

No. 566.

There are three reasons for satisfaction when you sell

# MERITOR Brushware

The market for toilet brushware is vast and constantly increasing. A few years ago a small minority used tooth brushes, to-day every member of the community above the pauper line is a possible customer for either a tooth brush or a dental plate brush. The large majority of the adult male population uses shaving brushes, Everybody uses hair brushes and nail brushes.

"Meritor" Brushware gives the chemist a firm grip of this enormous market. It enables him to offer his customers what no other retailer can offer—A complete range of branded toilet brushware, of reliable quality and reasonable price, presented in admirable fashion and every brush guaranteed.

And every "Meritor" sale gives three kinds of satisfaction to the chemist who makes it; the satisfaction of having sold a worthy article, the satisfaction of having made a substantial profit, the satisfaction of knowing that repeat business is protected by Maws' undertaking to supply "Meritor" Brushware only to qualified pharmacists.

Adequate display material is supplied with every "Meritor" order. Show "Meritor" Brushware in your pharmacy and your window and secure your share of the business the "Meritor"—scheme is creating.



S. Maw, Son & Sons Ltd.
Aldersgate St., London.

Telephone: City 7

Telegrams: Eleven Cent London



Cables: Eleven London Code: A.B.C. 4th & 5th Editions



No. J.22.

### SPECIFICATION.

Brown Enamelled body with tradc-mark name "Thermos" in silver; aluminium cup and shoulder, with detachable handle to cup; "Ther-mos" Shock Absorber and refill; superfine cork and parchment cover.

Announce

### A NEW FLASK and Prize Competition.

The J.22 is a new Flask retailing at 5/-. It has our standard refill and Patent Shock Absorber (see specification.) It is a great seller and should be stocked by all Dealers.

With the introduction of this Flask a

### PRIZE COMPETITION

has been started.

PRIZES, £20, £10, £5, and 100 Flasks.

This very easy Competition is producing big business—every Dealer is interested.

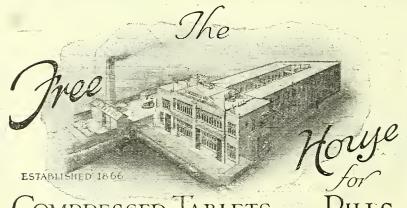
FULL PARTICULARS FROM-

THERMOS LTD., 12-14 Denman St., Piccadilly Circus, London, W.1

# H&T.K

MANUFACTURING

Newman House, Belton Rd., Willesden Green, London N.W.



Trifles make Perfection but Perfection is no Trifle

MICHAEL ANGELO

### BROMPTON COUGH LOZENGES

(ROUND)

Each lozenge stamped "Brompton Cough Lozenge"

> BEAUTIFUL FINISH AND

OF VERY FINE FLAVOUR PRICE:-

1 lb. @ 2/3 2/-7 lbs. 14 lbs. @ 28 lbs.

56 lbs. 112 lbs.

Shall we send you a sample?



# MALT AND OIL

WE solicit contracts for Ext. Malt and Ext. Malt and Oil on the following conditions:

PERIOD-For delivery before March 31st, 1923.

**TERMS**—Contracts to include falling clause. Prices subject to  $2\frac{1}{2}\%$  Discount at one month.

DELIVERIES—3 gross quantities can be taken in deliveries of not less than 6 dozen 1 lbs. or equivalent, and 15 gross in 2 gross 1 lbs. or equivalent.

Prices in Jars or Bottles. For any quantities less than 3 gross lots.

				EX	t. M	alt	•			Ext.	Malt	& C	0i
$\frac{1}{2}$ -lb.	-	-	-	-	8/9	doz.	-	-	~		9/- d	oz.	
Ī-lb.		-	-	~	13/10		-	-	-	· <b>-</b> - ;	14/4 ,,		
2-lb.	-	- «	-	-	24/-			~	-	-	25/- ,,		
4-lb.	-	-	-	-	46/2	,,	-	-	-	-	48/2 ,,		
For 3	gross	lots	1-lb	. or	equiv	vale	nt	in de	live	ries o	f 6 doz	<u>z.</u>	
½-lb.	-	-	-	-	· 8/3	doz.	-	-	-	-	8/6 do	z.	

$\frac{1}{2}$ -lb.	~	_	-	-	· 8/3 doz.	-	_		_	8/6 doz.
. Ī-!b.	<b>-</b> .	-	-	~	13/1 ,,	-	-	-	-	13/7 ,,
					22/6 ,,					
4-lb.	-	-	-	-	43/- ,,	-	-	-	-	45/1 ,,

### For 15 gross lots 1-lb. or equivalent in deliveries of 2 gross.

1/2-lb.	-	-		-	8/- doz	-	-	-	8/3 doz.
Ī-lb.	-	-	-	-	12/7 ,, -	-	-	-	13/1 ,,
2-lb.	-		-	-	21/6 ,, -	-	-	-	
4-lb.	-	-	-	-	41/,, -	-	-	-	43/1 ,,

### NATIONAL HEALTH INSURANCE.—Cardboard Containers.

On the basis of 10/6 doz. Ext. Malt and 11/- doz. Ext. Malt & Oil 1-lb. for quantities less than 3 gross.

# Sanatoria Benefit Government, Municipal and Charitable Institutions—Cardboard Containers.

On the basis of 11/3 doz. Ext. Malt and 11/10 doz. Ext. Malt & Oil 1-lb. for quantities less than 3 gross.

All subject to 2½% discount.



The Best Holiday Display

A display of toilet goods is never out of scason, but perhaps it pays best when people are preparing for or are on holidays.

Of course the show should be attractive, and there is no better way of ensuring this than to make the central feature

Figure Paste

The harmoniously coloured carton lends itself admirably to display, giving a light, bright effect.

Besides corrected each a dentifrice, so there is little risk of a Euthymol display failing to justify itself by increased sales.

Last, but by no means least, is the prospect of other sales. As a London pharmacist concisely put it:

"A display of Euthymol Tooth Paste brings the right class of customer into one's pharmacy.

Euthymol Tooth Paste attracts the purchaser; you do the rest.

Are you buying on best terms?

PARKE, DAVIS & CO., 50-54, Beak Street, LONDON, W.1.

Laboratories - - - Hounslow, Middlesex.



# Corks!!

Have you ever observed the harmony of a cork?—not the pleasant "plonk" of its withdrawal, nor its associations—but the way it *makes* a pharmacist's preparation worthy of his store. Cork is a "natural bark"—and if carefully selected and shaped corks are used, they will "shout" quality from the "mouths" of the bottles. Never run the risk of spoilage by faulty corks.

### AYRTON'S CORKS

Per Gross	Per Gross
N.S. for 6 and 8 oz., cheap for Insurance 'Scrips 82d.	Cordova XX, same size as Cordova, but superior quality 1/10
Madrid for 1 and 2 dr. and \(\frac{1}{2}\) oz. vials 10\(\frac{1}{2}\)d.	Cadiz for 10, 12 and 16 oz. bottles 1/4
Madrid XX, same size as Madrid, but superior quality 1/2	Cadiz XX, same size as Cadiz, but superior quality 1/10
Faro, for 1, 12, 2 and 3 oz. bottles 11d.	Special for 6, 8, 10 and 12 oz. bottles 2/-
Faro XX, same size as Faro, but superior quality 1/4	Lugo for 20, 30 and 40 oz. bottles 2/-
Braga long tapering for 1, 12, 2 and 3 oz. bottles 1/-	Velvet Vials, hand cut, for 2, 3 and 4 oz. vials 1/9
Braga XX, same size as Braga, but superior quality 1/4	Velvet Dispensing, hand cut, for 6, 8, 10 oz. bottles 2/-
<b>Lisbon</b> , for 3, 4, 6 and 8 oz. bottles 1/-	Ginger Beers XX 11d.
Lisbon XX, same size as Lisbon, but superior quality 1/4	Ginger Beers XXX 1/3
Cordova for 6 and 8 oz. bottles 1/4	Emulsions for W.M. Emulsions 3/3
/ MARTIN A CORM O	10 011

IATURAL CORK	2 and 3 oz	8½d. per gross \\ 10½d. ,, \\ 1/3 ,,	1
CORKS	3 oz. X	10½d. ,,	ł
<b>,,</b>	b and 8 oz. X	1/3 ,,	,

LIMITED STOCK

	per gross	reduction	on o	rders of not	less	than 50 gross
1d.	,,	,,	99	,,	,,,	100 "
1 ½ d.	• ,,	•5	,,	′,	27	300 ,,

### LEATHERBOARD STOCK BOXES

Containing:	No. 1			Containing :		No.	2.			
4-gross Madrid .			$\frac{1}{4}$ , $\frac{1}{2}$ , 1, 2 oz.	6-gross Faro				2,	3,	4 oz.
3 ,, Faro . 3 ,, Braga, long	•• •••	•••	2, 3, 4 oz.	4 ,, Lisbon					6,	8 oz.
3 ,, Lisbon .	•• •••		6, 8 oz.	2 ,, Cadiz				10,	12,	16 oz.
	 Complete fo		10, 12, 16 oz.		Com	plete f	or 12/5			

Sample box for ordering purposes containing about 3 gross, 3/6

Special quotations for Export.

# AYRTON, SAUNDERS & Co., Ltd. Manufacturing Chemists. Liverpool, Eng.

Te egrams: "Sundries Liverpool."

Telephone: Royal 4861.

# FIVE ESSENTIALS



We Specialize

in the production of Chemists' Printing. Send your enquiries. Labels
Wrappers
Window Bills
Envelopes
Cartons

Without any one of these the Chemist could not successfully .... run his business ....



Thomas Waide & Sons

Limited

Chemists' Printers

· · · Leeds



BEHIND each tin of "Mineral Spring" on your counter are the advertisement pages of many papers of national circulation, a representative selection (but only a selection) of which is illustrated above.

¶ "Mineral Spring" Health Granules—the Chemist's Own Effervescible—is sold in 1/- & 2/- tins (P.A.T.A. Min.). Trade price 8/- and 16/- doz. respectively.

THOMAS KERFOOT & COLD BARDSLEY VALE, LANCASHIRE, & Bardsley House, London, N.1 ESTABLISHED 1797.

COPYRIGHT

### More Business for Business People at PEACEHA

"The Garden City by the Sussex Sea

PEACEHAVEN, the rapidly rising Seaside Resort on the South Coast, situated near the oldworld village of Rottingdean, between Newhaven one and a half miles and Brighton six miles, offers amazing prospects to enterprising tradesmen, to those engaged in commercial pursuits of every description, as well as in the various professions.

Those who settle in Peace-haven now will be pioneers in an entirely new locality, where there is practically no competition, and where business will expand as rapidly as Peacehaven is developing.

veloping.

One of the most charming, and certainly one of the healthiest spots in Great Britain—the air is so invigorating—Peacehaven has in a few months attracted over 6,000 landowners to the Estate and 500 people who are already living in their own homes,

You can get Freehold Land here for £25 per plot, with free deeds and no legal expenses, and this land will treble and quadruple its original value as the further development of Peacehaven proceeds.

The delightful Seaside Homes are of artistic Bungalow Type,

striking a new note in design and decorative effect, contain in-numerable labour-saving devices, have Company water laid on, are wired for Electric Light and ready for immediate occupation. Built from materials on the spot, they are the most economic houres.

ready for immediate occupation. Built from materials on the spot, they are the most economic homes to be found anywhere. The rates are only 5s. 4d. in the £, and do not commence until you build or occupy your house.

The soil is a rich natural possession, and the scenery the finest in Sussex. Hatel Peacehaven will be ready in a few weeks. Steps now reach from the great cliffs to the beach. Golf, Tennis, Bowls, Cricket, Fishing, and Boating are available. Architect and Resident Agent always in attendance, and luncheons and teas are served.

Travel from London to Brighton and take a bus from the Aquarium to Peacehaven. You can also visit Peacchaven via Newhaven Town Station, where the Company's Motor Cars will meet you by request and convey you to the Estate without any charge.

to the Estate without any charge.

FREE.

Full particulars about Peace haven FREE.

### The SQUTH COAST LAND & RESORT CO. Ltd.

(Dept. C & D), 4 Vernon Place, Southampton Row, London, W.C. 1.

ZEAL'S REGISTERED

### Clinical Thermometer requires no

A 30-second pushed back in an instant.



# NEW IMPRO

The only Easy Reading Magnifying Clinical on the Market. IN FOCUS

### **OUT OF FOCUS**

The square mark engraved on lens front locates the Mercury column immediately. SPECIAL AWARD AND GOLD MEDAL, NEW ZEALAND, 1907
SILVER MEDAL, INDIA, 1909. SILVER MEDAL, LONDON, 1913.
All Clinical Thermometers are N.P.L. Tested.

82 Turnmill Street, London, E.C. I. G. H. Zeal, Ltd.,

Wholesale Manufacturers of Clinical Thermometers. Contractors to H.M. Government.

Established 1888 Tel. No.: Central 12438.



### Pharmacists' Printing

OF EVERY DESCRIPTION EXECUTED PROMPTLY & EFFICIENTLY. THE BEST QUALITY WORKMANSHIP AT THE MOST MODERATE .: .: PRICES. TRIAL ORDER.

James F. Wilkinson

(Exors. : 6. J. Serry and J. S. Briber). Pharmacists' Printer,

Pendleton. Manchester

Our Motto

"Præstantia et Celeritas." (4)



### BRITISH BESEMER' BATTERIES



Guaranteed for 6 months if seal unbroken.

All usual styles.

Send for List.

Trade - - 7/- doz. Retail - 101d each Bulbs. Cases.

50% Profit on Cost.

9-15 Whitecross St., London, E.C.1

Telephone: City 5392 (2 lines).

Telegrams: "Snail, Barb., London."





You can meet any competition with our new



HEALTH SALTS

A fine white mobile Poweer, dissolving with sustained effervescence.

Packed in Handsome Decorated Tins, rendered air-tight by our special process.

Contents guaranteed 4 oz. net weight.

LORIMER-MARSHALL LTD. 12, TOWER HILL, LONDON, E.C.3

# REDUCTION IN PRICE

### BISHOP'S NATURAL FRUIT SALINE

is now **reduced** to **19**/- per dozen, subject; the Retail Price remaining at **2**/**3** per bottle, P.A.T.A.

A Bonus is offered on orders for 6 dozen, or 12 dozen on consideration of Chemists giving a Window Display.

Attractive Show ands and Price-cards will be forwarded with each order.

### BISHOP'S NATURAL FRUIT SALINE

is a business bringer. It sells well all the year round.

To the Chemist. —11½d. per bottle profit if you purchase one gross lots.

11d. per bottle profit if you purchase 6 dozen lots.

Bonus quantities forwarded carriage paid.

It pays to push BISHOP'S.

PREPARED ONLY BY

ALFRED BISHOP, Ltd., 48 Spelman Street, LONDON, E.1.

ROEPHON H. RAAB & CO.

HOLLAND. ROERMOND,

Manufacturers of

Base Perfumery Products and Flower Oils.

### RACO

MUSK AMBRETTE c.p. 100% MUSK KETONE c.p. 100°/. c.p. 100°/° MUSK XYLOL OLEUM-MUSK art.

> generally regarded as the STANDARD.

> > Sole Representative for the U.K.:

ALFRED PAUL WHITE, 5 Water Lane,

Gt. Tower Street, LONDON, E.C. 3.

WE beg to announce to Provincial Chemists that we are showing at the forthcoming Chemists' Exhibition which is to be held at the Town Hall, Leeds, from September 18th to 22nd inclusive.

# POTTER & MOORE'S

### MITCHAM LAVENDER WATER

The Lavender Crop at Mitcham is now being harvested; the photograph shows the fragrant flowers ready for the sickle; in a few days' time these blossoms will be treated at our Lavender Distillery at Mitcham, and will yield the world-famous Potter and Moore's 1749 Mitcham Lavender Water.



From the Lavender Fields to the Bottle.



POTTER & MOORE, The Lavender Distillery, Mitcham, Surrey.

SOLE PROPRIETORS:

W. J. BUSH & CO., LTD., Ash Grove, Hackney, London, E.8.

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Parfumerie

### Bourjois Paris Poudre de Riz de Java

No. 45

10/- per doz.

P.A.T.A. 1/3 per box.



No. 495

7/- per doz.

P.A.T.A

 $10\frac{1}{2}$ d. per box.

Made in the following tints: RACHEL, NATURELLE, BLANCHE, ROSE and BRUNETTE.

A. Bourjois & Cie, Ltd., 66 Carter Lane, London, E.C.4.

Also Manufacturers of the celebrated "ASHES OF ROSES," No. 2, 15/= per doz.; P.A.T.A. 1/9 per box.

### A Line That Sells Itself."



Finest Quality Concentrated Perfumes made from natural flower oils in the following odours :-

PARMA VIOLET LILY OF THE VALLEY WALLFLOWER

WHITE LILAC WHITE ROSE & SWEET PEA

Free from spirit. Supplied in High-Class Rod-Stoppered Hexagon Bottles,

Apply to-

RUVOIRE ET CIE.

154 Church Lane, Harpurhey, MANCHESTER

### **JAKSON'S** PEPPERMINT, LAVENDER & CAMOMILE OILS

are the BEST.

Produced and Prepared by

THE LARGEST GROWERS & DISTILLERS IN ENGLAND.

Distillery:

J. JAKSON & CO. (Mitcham Rd., 1921), LTD. Mitcham Road, WEST CROYDON.

AGENTS for the U.K.:

F. NEWBERY & SONS, LTD. 27 & 28 Charterhouse Square, London, E.C. 1

# The Grey Hair Problem Solved by an entirely new discovery

The
Work of an
Eminent
Hair
Specialist

years ago. He has SUCCEEDED FAR BEYOND HIS OWN EXPECTATIONS and he has embodied his discovery in a preparation called . . . .

A complete solution of the Grey Hair Problem was the task which an eminent Hair Specialist set before himself some

Restores
The Colour
Gradually,
Permanently,
Safely

This preparation has been PUT TO THE TEST for more than two years, every grade and texture of hair being used in the experiments and ENTIRE SATISFACTION has been the result in EVERY CASE.

Absolutely Harmless NUCTONE acts in quite a different way from Hair Dyes, restoring to the cells of the hair THE PIGMENTS WHICH NATURE HAS CEASED TO SUPPLY, leaving the work to be completed by the action of light on the hair.

The usual difficulties connected with the sale of Hair Dyes, such as disappointing or harmful results, are entirely eliminated in the case of NUCTONE, which is guaranteed not to contain any injurious ingredients such as sulphur or lead. It contains a very powerful Bactericide which debars the possibility of injury to the hair, the skin or the general system through using NUCTONE.

Retail Price 6/6 per Bottle.

Manufactured by

### Stewart, Goodall & Dunlop, Ltd., 4 Dering St., London, W.1

Stocked by the undernoted Wholesale Houses:

AYRTON, SAUNDERS & CO., LTD., Hanover Street, LIVERPOOL.

BUTLER & CRISPE, 82 Clerkenwell Road, LONDON, E.C.

HARKNESS, BEAUMONT & CO., EDINBURGH.

HATRICK, 152/170 Renfield Street, GLASGOW. THOMAS McMULLAN & CO.

THOMAS McMULLAN & CO., Victoria Street, BELFAST. MAY, ROBERTS & CO., LTD., 7 Clerkenwell Road, LONDON, E.C.

F. NEWBERY & SONS, LTD., 27/35 Charterhouse Square, LONDON, E.C.1. SANGERS,

258 Euston Road, LONDON.

SOUTHALL BROS. & BARCLAY, LTD., Priory Lane, BIRMINGHAM.

J. WOOLLEY, SONS & CO., LTD., 12 Victoria Bridge Street, MANCHESTER.

Advertised in the National Press-therefore much in demand.

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Toilet Specialties.

8		Price	Selling
		per doz. to Retailer	Price P.A.T.A.
PILENTA SOAP		10/-	1/-
PROLACTUM		10/-	1/-
PARSIDIUM JELLY	• • •	10/-	1/-
ALLACITE OF ORAN	GE		
BLOSSOM	•••	22/6	2/6
BORANIUM		22/6	2/6
CLEMINITE	•••	22/6	2/6
For a face lotion		22/6	2/6
PERGOL		22/6	2/6
TEKKO PASTE		22/6	2/6
STALLAX		22/6	2/6
JETTALINE	•••	31/6	3/6
PHEMINOL		36/-	4/-
MENNALINE	• • •	36/-	4/-
MERCOLIZED WAX		31/6	3/6
STYMOL		36/-	4/-
For oily complexions and			0/6
Hair-curling fluid.	• • •	22/6	2/6
BARSYDE		22/6	2/6
Dandruff eradicator. TAMMALITE		22/6	2/6
LIQUID PERGOL		31/6	3/6
BICROLIUM		locally. 22/6	2/6
HARAPOSA		22/6	2/6
COCONOIDS		31/6	3/6
For figure development.		3.70	<b>3</b> / <b>0</b>

The Products of Messrs. PARKER, BELMONT &

CLYNOL BERRIES For obesity. SOFT PALERIUM ... 45/-5/-LIQUID NAIL POLISH ... Brilliant and lasting.

Stocked by ALL Wholesale Houses.

### COLONIAL DEPOTS AND AGENCIES.

COLONIAL DEPOTS AND AGENCIES.

Australia: ALL WHOLESALERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.

South Africa: LENNON Ltd. Cape Town. etc. SIVE BROS, & KARNOVSKY, Johannesburg.

India: FRAMJEE & SON, Rombay.

SMITH, STANISTREET & CO., Calcutta.

New Zealand: SHARLAND & CO., Auckland & Wellington.

South America: DEARBORN (South America), Ltd., Calla Salta 264, Buenos Aires.

Straits Selllements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.

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### One of our Customers says:

"We are always pleased to handle Evan Williams' Specialities for, amongst other reasons-

"We never get any complaints.

"They are quick sellers.

"You leave the retailer a good margin of profit."

The EVAN WILLIAMS CO., LTD., 18 & 18a, Ogle St., Foley St., LONDON, W.1.

### isplay Your Stocks Of Forhan's

Wide and consistent advertising is steadily building up interest in Forhan's For the Gums and its prevention of pyorrhea.

You can convert this interest into sales. Display your stocks of Forhan's For the Gums prominently. They attract the attention of the passer-by. His interest is re-awakened, and simultaneously the opportunity to purchase is placed before him.

When Interest meets with Opportunity, the result is generally a sale. Forhan's advertising is creating the Interest; it is for you to display the Opportunity.

Window dressing material is sent on request. The services of a skilled display man are also available free of charge.





# The Original and Best SOLID Eau de Cologne

Its Elegance and Utility appeal to all.



In Green Bottles, Registered

Made from the finest Eau de Cologne. Refreshing when rubbed on the forehead, pleasant as a smelling bottle, invaluable in a heated atmosphere or when travelling. A real acquisition to every household. A boon to those in hospital.

RETAILS AT 3/6 Min. P.A.T.A. PER DOZEN 32/-

Special terms for Bonded Shipment of 4 gross Minimum.

### SOLID ENGLISH LAVENDER

In Blue Glass. Terms as Frozoci

### R. Demuth's Laboratories

68 Salusbury Rd., & Montrose Av., London, N.W.6

# Calox Customers are Steady Patrons

XPERIENCED chemists know that a dentifrice that can be depended upon to give satisfactory results is a profitable item for them. Because a satisfied customer continues to come back for more. This means increased profits for you.

Help your Calox sales by showing the Calox display carton prominently on your counter. It's a most effective "silent salesman" for a product endorsed by a majority of the leading dentists in the English-speaking world.

Manufactured only by

### McKESSON & ROBBINS

91 Fulton Street, New York, U.S.A.





Stock! Stock!! Stock !!!





TRADE TERMS:

12/- doz. Retail at 18/-

From all Wholesalers.

Anzora Perjumery Co., Ltd. Willesden Lane - N.W. 6.

DODGE & OLCOTT CO.,

20 MARK LANE E.C. 3. LONDON.

THE "D & 0"

is the "Standard of Quality" for

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OINTMENT
Retails at
1'3
PER BOX

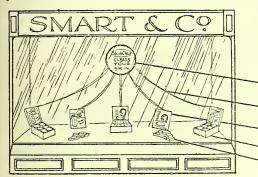
DR BUCHANAN'S



SOAP Retails at SP PER TABLET

# WILL INCREASE YOUR SALES

To our old established and popular remedy, Dr Buchanan's Skin-Clear Ointment we have added a companion in Dr. Buchanan's Skin-Clear Soap. These two lines are together being re-marketed in new modern and attractive get-up including designs for Cartons, Showcards and Window Displays. In addition, we contemplate launching an extensive advertising campaign as soon as retailers obtain supplies. We honestly believe Dr. Buchanan's Skin-Clear to be one of the most wonderful remedies for skin diseases on the market, and it finds a ready sale with an appreciative public. Sold under P.A.T.A. regulations at full face value.



### FREE WINDOW DISPLAY

We illustrate a window show of Dr. Buchanan's Skin-Clear Ointment and Soap which is supplied FREE to all retailers stocking Skin-Clear. Can be fitted to Window space of any size. Your profit begins with the Display.

- Centre Disc 15 inches diameter fitted to centre of window pane about eye level.
- 2. Ribbons running from centre of back of Disc to display.
- 3. Showcards of (a) Ointment (b) Soap.
- 4. Dummy boxes of (a) Ointment (b) Soap.
- 5. Dummy cartons.

The OINTMENT



This has already had a wonderful sale and is become increasingly popular with the public as a positive cure for all skin and blood diseases. You can easily sell a gross per week.

A new companion remedy for use with the ointment and as a safeguard against all skin eruptions. It will prove a quick seller and will show a good profit for you.



TRADE TERMS

1/3 (P.A.T.A. 1/3 nett) SKIN-CLEAR OINTMENT 9d. (P.A.T.A. 9d. nett) SKIN-CLEAR SOAP 10/- doz, 6/- ,.

Send your order for Display and Particulars NOW

POTTER & CLARKE LTP

Manufacturing Chemists.
60-64, ARTILLERY LANE, LONDON E. I.

# PAPIER POUDRE



MARKS

Made British Goods.

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Beware of Spurious Imitations.

PAPIER POUDRE, LTD.,

46 Baker St., Portman Sq., London, W. 1,

WHITE. ROSE or RACHEL Tints, 4d., 6d., 8d., and 1/4 size Booklets, 2/8, 3/9, 5/- and 10/- per doz. net, respectively.

### A NEW LINE IN PAPIER POUDRÉ.

BOOK IN WHITE, ROSE or RACHEL TINTS, containing a neat Mirror, Price 1/-, at 7/6 per doz. net. This should make a good selling article. Sample Set in the three tints sent on application.

SUNBURN TINT, 8d. and 1/4 sizes only, 5/- and 10/- per doz. net.

NEAT MIRROR CASES, 1/6 ... 13/9 per doz. net. REFILLS to Mirror Cases in White, Rose or Rachel, 4d. 2/8 per doz. net. 8d. SHAVING PADS, for Use after Shaving (unscented), white only 5/- per doz. net.

### POPPŒA ROUGE

A most popular line.

(Regd.)

Made in booklet form. One size only, viz. 1/-, at 8/- per doz. net. Mirrer Cases 1/6, at 13/9 per doz. Refills for same 6d., at 3/9 per doz. net.

PAPIER POUDRÉ, Ltd., 46 BAKER STREET, LONDON, W.1

AUGUST 19, 1922

YOU HAVE NO DOUBT NOTICED IN PRESS THE **FOLLOWING ADVERTISEMENT** 

Perhaps some of your customers have enquired from you about it?

If you do not already know "Peldo" we shall be pleased to send you a Trial Tube post free, so that you may learn all about it; you will then have a very interesting subject to talk about to your customers.

### The following Testimonials are interesting:—

"Dear Sir,—I have now for the past 17 years washed, cleaned and done everything necessary to my car myself and have benefited greatly thereby. The only drawback to doing everything for the car with my own hands is the difficulty of keeping these members clean and presentable. After using many soaps and other concoctions I have at last found a way of keeping my hands in a gentlemanlike condition.

I am not an agent for, and do not wish to advertise any particular wares, but in the interest of other men who look after and keep their own cars will you tell them that 'Peldo' is all that is claimed for it by the makers.

"Dear Sirs,-After using 'Peldo' Skin Cream I feel that motoring has been robbed of its last ' remaining drawback

It is now possible to be a practical motorist, and also a gentleman—at least as far as one's hands are concerned.

"Dear Sirs,—About three weeks ago I wrote to you asking for an address in Sheffield where I could buy your 'Peldo.' I purchased a tube at Messrs.—

I thought I would like to tell you what a wonderful invention it is. My hands are always more or less, in a bad condition in spite of using all kinds of Cream, but after one week of 'Peldo' they are beautifully soft and clean.

Wishing you every succes."

Wishing you every success.

"Dear Sirs,—Having just finished a complete overhaul, and dismantling and refitting of a J.A.P. Engine fitted to my Morgan, I feel I must write to congratulate you on having put on the market an absolute boon and blessing to all motorists who, like myself, like to do their own repairs, and don't care to have to use a file to remove the dirty oil and grease which seems to have such affinity for one's hands. Your claims for 'Peldo' are more than justified. I shall never be without it and regard it as an invention second only to that of the Petrol Engine itself.

Wishing you every success, which is richly deserved."

# RETAIL PRICE

Attractive Window Display material and Showcards supplied. Sample Tubes supplied gratis in proportion to quantity ordered.

### WHOLESALE PRICE

In order to introduce "Peldo" we are offering a special bonus for a guaranteed window display of not less than 14 days as follows:

On orders of 1 gross a bonus of 18 full-size tubes. On orders of 6 dozen a bonus of 8 full-size tubes. On orders of 3 dozen a bonus of 3 full-size tubes.

Further particulars on application to

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Devon Wharf and Bell Wharf, Emmott Street, MILE END, E.1.

# "CULMAR"

### NEW MODEL

In response to numerous requests we have now produced a small model suitable for dressing or shaving cases.

### "CULMAK" JNR.

Price 21/- Dozen.

Retail at Half-a-crown.



This small model will be exceedingly popular, and will readily sell on account of the low price.

STERILIZED BY A CERTIFIED PROCESS. WARRANTED BY THE MAKERS.

# "CULMAK" SHAVING SOAP

The many post orders received direct from the public shows the interest aroused by a good shaving soap that

### STERILIZES WHILE SHAVING.

MAKE THESE SALES **YOURS** BY SHOWING A BOX ON YOUR COUNTER

PROFIT 421/2% P.A.TA.



STOCKED BY 45 WHOLESALERS. ORDER TO-DAY
7/6 doz. (13 sticks to the dozen.)

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### HONEYCOMB & TURKEY

in all SIZES and QUALITIES ranging

from 4d. to 18/- each.

WONDERFUL VALUES.

Send your enquiries to-

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DIRECT SPONGE APPORTERS.

32 Queen Victoria St., London, E.C.4.

Telephone: City 5824.



# COMBS

### LADIES' DRESSING COMBS.

No.		Per doz.	No.	-	Per doz
103 Black celluloid	7½×1½ in.	6 6	195 Black vulcanite, stout, burr grailed	8 ×13 in.	12 6
320. White galalith	$7\frac{7}{2} \times 1\frac{7}{2}$ in.	7 0	287.— " galalith " "	7½×1½ in.	18 0
101 " celluloid	8 ×13 in.	76	288 White ,, ,,	71 × 13 in.	18 0
277. Black , burr grailed	8 ×11 in.	9 0	280. — Horn " "	$7\frac{1}{2} \times 1\frac{3}{4}$ in.	18 0
284 " galalith "	74×13 in.	96	234. Mottled galalith, ex. stout,		
118 " vulcanite	8 ×13 in.	10 0	burr grailed	$7\frac{1}{2} \times 1\frac{3}{4}$ in.	27 6
			258.— White " " "	8 ×12 in.	30 O

### LADIES' RAKE COMBS.

No.	Per doz.	No.	Per doz.
262. Black celluloid, burr grailed	$7\frac{1}{2} \times 1\frac{1}{2}$ in. 7 6	297. Black galalith, stout, burr grailed	7½×1₹ in. 18 0
224 Wbite " " "	8 ×13 in. 8 0	293 Wbite " " "	7 × 13 in. 18 0
196 Black vulcanite, stout,		281.— Horn " "	$7\frac{1}{2} \times 1\frac{3}{4}$ in. 18 0
burr grailed	$8 \times 1^{3}$ in. 12 6	233.— Mottled " extra stout,	
174 White celluloid "	$8 \times 13$ in. 15 0	burr grailed	$7\frac{1}{2} \times 1\frac{3}{4}$ in. 27 6
189.—Black "	$8 \times 1^{3}$ in. 15 0	259 ,, ,, ,,	$8 \times 1\frac{3}{4}$ in. 30 0

### SMALL TOOTH COMBS.

No.			Per doz.	No.				3	Per de	oz.
250 White galalith	 	3 ×13 in.	3 0	176 White galalith	•••	• • •		$4 \times 2$ in.	6	6
250a.—Black "	 	$3 \times 1^{\frac{3}{4}}$ in.	3 0	177. Blonde "			•••	$4 \times 2$ in.	6	6
182 ,,	 	$3 \times 1^{\frac{3}{4}}$ in.	4 6	295.—Steel				$3\frac{1}{2}\times2$ in.	7	0
192 " vulcanite	 	$3 \times 1\frac{3}{4}$ in.	5 0	202. Black vulcanite	***	1 1018	•••	$3\frac{1}{2}\times2$ in.	7	6

A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory.

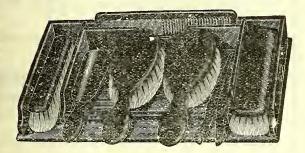
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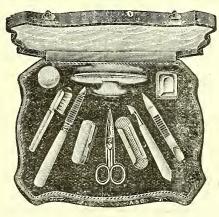
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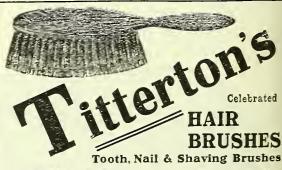
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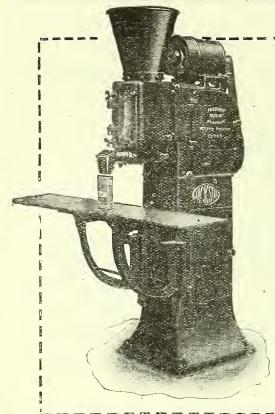
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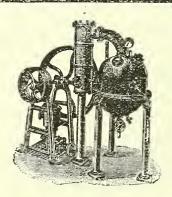
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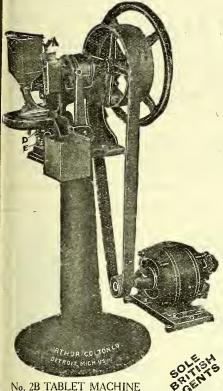


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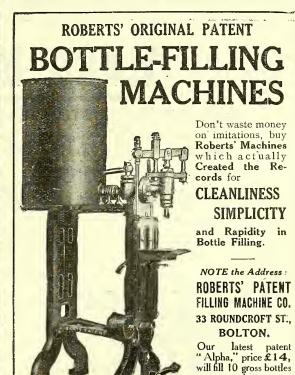
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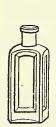
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BY a simple operation in Autumn

- (1) Wipe out the next generation of the worst orchard pests, the Winter, March and Mottled Umber Moths;
- (2) To reduce substantially other injurious insects;
- (3) To improve in consequence the yield and grade of fruit.

These are in brief the benefits derived by the modern fruit-grower who bands his trees with ORBITE. Within the next few weeks growers everywhere will be buying their supplies; chemists who stock ORBITE can do good business.

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#### Danysz Virus in Liquid Form

Retail Price.			,	Wholesale Price.
Quart Bottles 6/- each	 	 		4/6 each
Pint ,, 4/6 ,,	 	 		3/9 ,,
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Discount off Retail Prices 25% Monthly Account, or 33½% cash with order. Monthly a/c Cash with order. 7/6 13/6 1 gall, tins • • 6/8 12/-

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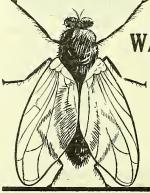
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Clean, hygienic, not a bit unsightly
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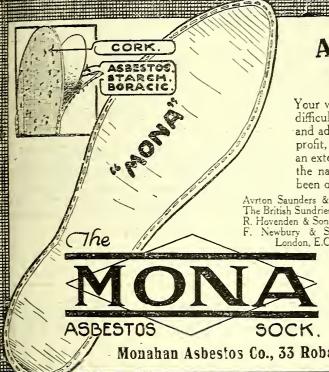
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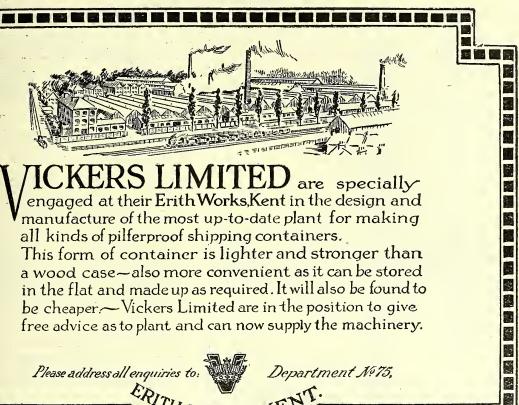
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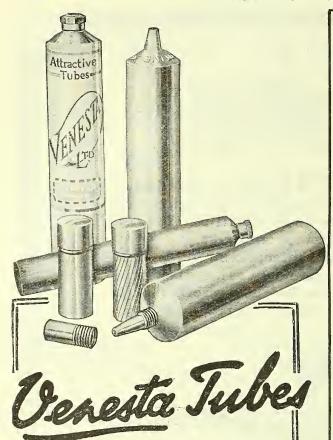


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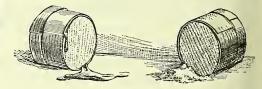
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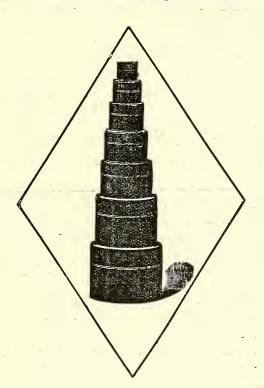
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No. 8	Cont Series		7
Bankruptcy Report Books, New Business Changes Colonial and Foreign News Correspondence: Letters Legal Queries Miscellaneous Inquiries Subscribers' Symposium Deaths Editorial Articles: Peppermint Oils Britich Trade Improving Fall in Shellac Dominion Tariffs Empire Patents Conference English News French Lavender in 1922 French News Information Department	277 276 273 275 298 300 300 300 303 283 286 287 288 288 288 281 273 293 276 284	Japanese Pharmac pæia.—VI. Marriages New Companies an Company News Observations and R flections "Out of the Rut" Personalities Pharmaceutical Societ of Ireland: Council Meeting Poisonings Practical Notes Report on Cinchona Retrospect Reviews of Books Roumanian Petroleur I. Scottish News South African News Trade-marks Trade-marks Trade Notes	PAGE 0
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#### **Business Changes**

Mr. A. L. Thorne, chemist and druggist, has opened a pharmacy at 2 Grosvenor Buildings, Tunbridge Wells.

Mr. J. A. Slater, chemist and druggist, has acquired the business of Mr. J. H. Smithies, 302 Newchurch Road, Stacksteads, Bacup.

Mr. A. Thomas, Ph.C., F.C.S., 57 Old Town, Clapham, London, S.W. 4, has opened a pharmacy at 689 Wandsworth Road, S.W. 8.

MR. F. J. REYNOLDS, chemist and druggist, has taken over the business of Mr. W. Dennis, chemist and druggist, Saxilby, as from August 1.

DUDLEY & Co., printers and shop-fitters, will shortly remove their City showroom from 25 Wood Street, London, E.C. 2, to 65 Fore Street, E.C. 2.

#### English and Welsh News

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in copies of newspapers contain this or other news sections.

#### Safeguarding of Industries Act

Among the complaints lodged with the Board of Trade which are in the "waiting list" and will be heard shortly is one objecting to phosphate of soda being included in the list of dutiable articles. Mr. Kenneth Swan and Mr. R. Lambert Parry are the counsel retained for this case. Oxalic acid is also the subject of a com-plaint to be heard shortly. Mr. Kenneth Swan and Mr. R. Lambert Parry are also conducting this case. The Board of Trade have received a formal notice of complaint under Subsection (5) of Section I. of Part I. of the Safeguarding of Industries Act that "acid acetic, 80 per cent. grade or higher," has been improperly excluded from the list of articles chargeable with duty under Part I. of the Act. The complaint will be submitted in due course to the Referee.

#### Poisonings

The following cases of fatal poisoning have been recorded since our last report:

At Arnold, Nottingham, on August 13, Mr. George S. Stathers, M.C.R.S., L.R.C.P., committed suicide by injecting morphine and taking hydrocyanic acid afterwards.

A verdict of "Suicide while of unsound mind" was recorded by the Westminster coroner, on August 15, in the case of Ernest G. Tillson, a clerk who died in hospital from poisoning by potassium bichromate.

#### Birmingham

A new photographic society has been inaugurated for Old Hill, Cradley Heath and district.

The death rate of Birmingham for the first week in August was 7.6 per 1,000, compared with 10.0 for the corresponding week of last year.

New Street traders are complaining of the effect on trade of the diverting of traffic (C. & D., Aug. 12, p. 266), and the number of unemployed sightseers obstructing the footpath.

A writer in the "Birmingham Mail," of August 12, referring to the translation of the British Pharmacopœia into Chinese, suggests that, judging from the appearance of the average prescription, that is the language in which it was originally printed.

#### Leicester

It is anticipated that the motoring holiday of a local pharmacist in Brittany and Normandy will form the subject of an evening's entertainment during the coming

Sympathy is expressed with Mr. R. W. Brownlow, chemist and druggist, chairman of the Melton Mowbray Urban District Council, who is having a trying time as the result of the floods.

Many chemists are busily developing films for recent holiday-makers. The results show that the weather elsewhere was not so unpleasant as that experienced in the Midlands.

#### Nottingham

Mr. Edgar C. Horton (Butler & Crispe, druggists' sundriesmen, London) is one of the competitors in the Nottingham to Birmingham road walk, which takes place on August 26.

The Nottingham Ladies' Choir, which entertained the British Pharmaceutical Conference at the Mayor's reception on July 24, has been awarded a first prize at the Eisteddfod.

Summoned, recently, for being £68 in arrears in respect of a maintenance order, a defendant, described as a chemist, told the Bench he was obtaining work at Chesterfield at £3 5s. a week. He was ordered to pay 15s. a week.

Liverpool

The number and variety of vacuum flasks on view is surprising.

Cold and rain have checked the trade in cameras and photographic materials; on the other hand, a plague of moths has led to a brisk demand for insecticides.

Mr. John Cleworth, Manchester, was in Liverpool at the week-end, and received many congratulations on the published results of his most recent photographic activities.

A leading pharmacist accounts for the small orders most travellers in perfume are taking to overstocking. He thinks the prices of spirit will not fall for several years, and that, meanwhile, the perfume business is bound to be dull.



Photo]

[Cleworth

A CONFERENCE CONVERSATION
(Mr. W. H. Saunders and Miss Stanley, Dovedale, July 27)

#### 'Sheffield

Mr. George Squire, Ph.C., is recuperating at Filey. W. Fox & Sons, Castle Street, have taken up photographic work and are making a free culargement offer.

The secretary of the Pharmaceutical Committee has been busy answering inquiries regarding this month's Insurance cheques.

#### Miscellaneous

PH/RMACEUTICAL SOCIETY OF GREAT BRITAIN.—In the section "Pharmacy" of the Educational Information in our last week's issue the date of entry for the Major examination (p. 244) should have been given as the 12th of the preceding month, not as printed.

Cost of LIVING.—It is estimated in "The Labour Gazette" that, on August 1, the average level of retail prices of all the commodities taken into account in Ministry of Labour statistics was about 81 per cent. above that of July, 1914, as compared with 84 per cent. on July 1, and 176 per cent. on November 1, 1920.

Printed Paper Rate.—The Postmaster-General has intimated in correspondence with the Association of British Chambers of Commerce that the regulation providing that printed matter must be posted not later than the nearest previous collection to 3.30 p.m., in order to obtain advantage of halfpenny postage is on the lines recommended by the Geddes Committee, and he cannot see his way further to extend the scope of the reduced rate, which is unremunerative.

CHEMISTS' DENTAL SOCIETY.—A council meeting, followed by a general meeting, of the Chemists' Dental Society will be held on August 31, at 5.30 p.m., at the University of London (Imperial Institute), South Kensington, S.W. 7. The International Dental Exhibition is being held in the same building from August 28 to September 1. Members of the C.D.S. who have not received invitation tickets for the Exhibition should apply to the secretary, Mr. J. W. Roberts, 10 Tavistock Place, W.C. 1.

Hospitals and co-operative buying.—A conference halately been held at the Ministry of Health between the Voluntary Hospitals Commission and the local Voluntary Hospital Committees. The following passage from the official report is of interest to the drug-trade: "Mr Brock, the secretary of the Commission, explained that the Commission were collecting information as to the possibilities of co-operative purchase, which would be communicated to the local Committees if it were found to be valuable. Any information which the local Committees could themselves supply on this subject would be welcomed."

OPTICAL EXAMINATIONS.—The next examinations for the Associate and Fellowship grades of the Britisl Optical Association will be held at the University of London, South Kensington, S.W., and also at the Imperial College of Science, South Kensington, from November 22 to November 24. The theoretical examination for the two grades will also be held in Manchester and in Glasgow on November 22. Inquiries should be addressed to the secretary, Clifford's Inn Hall, Fleet Street, London, E.C. 4.—Entries for the next examination (November) of the Spectacle Makers' Company close on September 30.

In the courts.—At Chester, on August 10, Frances D. Scott, said to be the widow of a doctor, was sentenced to a month's imprisonment on each of two charges of obtaining tubes of morphine-sulphate tablets by means of spurious prescriptions from Mr. P. Craine, chemist and druggist, and Cheers & Hopley, chemists, and of stealing perfume valued at 5s.—At West Hartlepool, on August 11, a seaman named Doulios was sentenced to six months' imprisonment for offering cocaine for sale. He told the police that he had bought it in Germany.—At Gravesend, on August 17, two Japanese ship's stewards were each sentenced to six months' hard labour for being in unlawful possession of cocaine. At East Ham Police Court, on August 17, three Chinese seamen were each fined £20 on a charge of possessing and importing raw opium.

#### Irish News

#### Dublin

A Decree (No. 7, 1922) issued by the Provisional Government of Ireland "to restrict and regulate the importation of certain goods and articles, and to obtain information as to the persons to whom the same are distributed," which is to have effect until December 6, 1922, unless sooner annulled, prohibits the importation into the area of jurisdiction of the Provisional Government (save under the authority and in accordance with the conditions of a permit in that behalf first obtained from the Minister for Home Affairs in the Provisional Government) of goods and articles, including any petroleum spirit, naphtha, benzol, petroleum, paraffin oil, fuel oil, motor spirit or other inflammable liquid, or liquid or other substance capable of producing power, and lubricating oil.

#### Brevities

Mr. James McCutcheon, R.D., Castle Street, Ardee, has been co-opted a member of the Town Commissioners. Craig & Wellwood, Ltd., Ferryquay Street, presented a prize for competition at a recent sports meeting at Portrush in connection with the Londonderry City and County

Infirmery.

Mr. T. P. Toher, Ph.C., proprietor of the Sligo Drug
Co., Ltd., has acquired the prescription books of the
late Mr. Boyers, Ph.C., Medical Hall, Sligo. He has
also taken over the various proprietary articles.

#### Belfast

The annual picnic of the Chemists' and Druggists' Society of Ireland, postponed from July, has been fixed for September 6. The party will meet at the Dub Tea Gardens, Malone Road, at 3 p.m., and games and dancing will be arranged for. The convener of the Committee is Mr. S. Haydock, J. and J. Haslett, Ltd., Belfast.

#### Scottish News

#### Brevities

Mr. A. C. G. Burt, chemist and druggist, has opened pharmacy at 383 High Street, Kirkcaldy.

At Falkirk Sheriff Court, on August 11, a grocer was ned 21 for selling tinned peas containing 2.95 gr. per ound of copper sulphate.

A fire occurred at the mills of the North ubber Co., Ltd., Edinburgh, on August 10. The out-reak was chiefly confined to a top floor.

There has been a good demand for photographic quisites at seaside resorts this month. The sales of meras have been limited, but the requests for films, lates, developing and printing have in many cases rested a record.

Mr. James P. Todd, Ph.C., who was mentioned in our ducational Number as lecturer in two schools of pharacy, informs us that he devotes the whole of his time the Glasgow Royal Technical College, the only institu-on in the West of Scotland approved for both parts the Qualifying examination.

Successful results have attended the use of oil of eppermint in Isle of Wight bee disease (C. & D., I., 1922, p. 770). Many hives badly affected with crawlers ad by this treatment, said the secretary of the Scottish eekeepers' Association at a conference at Leuchars, on ugust 12, been restored to active life, and some had warmed and were gathering honey, and showing no urther signs of disease.

#### Colonial and Foreign News

GERMANS RETURN TO ITALY.—Following the agreement ecently signed between Italy and Germany concerning he return of German businesses and property in Italy o their former owners, a number of German pharmaists have regained possession of their old businesses in tome, Florence, Naples and San Remo. In some in-tances, as Italian capital has been invested, the pharnacies will be owned by German and Italian partners.

TRADE IN CZECHO-SLOVAKIA. -- According to the official gures of Czecho-Slovakian foreign trade during 1920 and 921, pharmaceutical goods and perfumery were imported a 1920 into the new Republic to the value of 37,130.200 zech crowns; exports were valued at 28,527,000 cr. The gures for 1921 are 19.829,910 and 12.245,902 cr. respectively. Chemical imports were 571,247,073 cr. in 1920 and 602,116,070 cr. in 1921. Exports figure with 85,080,145 cr. in 1920 and 427,299,654 cr. in 1921.

THE NEW POLISH STATE has the doubtful privilege of THE NEW POLISH STATE has the denoted privilege cossessing three different official pharmacopæias—i.e., the cossessing three different official pharmacopæias—i.e., the cossessing three different official pharmacopæia. Ten paring the first Polish national pharmacopæia. nembers have been selected from the staff of the Ministry f Health, including medical practitioners, veterinary urgeons, pharmacists and chemists. In addition, the dimistries of War, Agriculture, and Labour will each be epresented by one delegate. The director of the Government pharmaceutical institute will also be a member of he commission, the President of which is to be nominated by the Ministry of Health. The mandate of each nember is for two years.

Poison-gas warfare.—The Commission for Intellectual Co-operation of the League of Nations held its first neeting recently in Geneva. In order to promote intelectual co-operation, and particularly to study the means of achieving this object, it was decided to hold, as soon is circumstances will permit, an international congress it which all the universities of the world will be represented. In dealing with the question of scientific disoveries and the safeguarding of inventors' rights, Pro-essor Bergson drew attention to the fact that while an nvention may be protected by patents, the discovery tself, or the idea underlying some discovery, has no protection. A sub-commission, consisting of MM. Destrée,

Millikan, Ruffini, Torres-Quevedo, was appointed to study this question. With reference to the proposal to issue an appeal to scientists in all countries to publish the results of research work on poison gases, the expert members of the commission, expressing the opinion that such an appeal would prove abortive, regretted being unable to suggest any method whereby it would be possible to assure the world-wide co-operation of scientists in this matter.

ITALY'S FOREIGN TRADE.—The following figures are now published of Italy's foreign trade in chemical products during the past three years. For the sake of ducts during the past three years. For the sake of comparison, those for the year 1913 are also given, particularly in illustration of the difference in values in consequence of the depreciation of the Italian currency. In the following figures the chemicals and dyes received from Germany as reparations under the Peace Treaty are not included. These represented a value of about 80,000,000 lire, two-thirds being represented by dye-stuffs:

#### CHEMICAL AND MEDICINAL PRODUCTS, RESINS AND

		PERFUM		
	Impe	orts -	E	ports
	Tons	Lire	Tons	Lire
1913	370,573	149,730,276	282,372	79,500,670
1919	191,830	673,003,232	87,274	250,474,385
1920	276,056	659,136,574	188.035	412,038,515
1921	106,990	321,181,057	80,777	226,460,167

#### DYE-STUFFS AND COLOURING MATERIALS Exports Lire Imports Lire Tons Tops 37,870,940 9,305,972 1913 .. 58,559 59,951 31,759 1919 ... 1920 ... 104,680,485 197,908,720 80,869,905 22,801 27,322,045 41,846,200 47,430 26,462 1921 ... 17,796 21,857 38,548,896

NARCOTIC DRUGS ACT IN U.S.A.—A recent circular of the United States Treasury Department (T.D. 39154) coutains a copy of the Narcotic Drugs Import and Export Act approved May 26, 1922, which amends the Act of February 9, 1909 (as amended), entitled "An Act to prohibit the importation and use of opium for other than medicinal purposes." Pending the promulgation of permanent regulations under this Act, the Federal Narcotic Control Board has approved the following emergency regulations:

(a) Pending further instructions, the Division of Customs of the Treasury Department may, within its discretion, license importations, including withdrawals from warehouse for consumption, of crude opium and coca leaves for reputable concerns, and exportation of narcotic drugs, and also

able concerns, and exportation of narcotic drugs, and also intransit shipments, as nearly as practicable in conformity with the regulations in force on the enactment of the Narcotic Drugs Import and Export Act of May 26, 1922.

(b) Narcotic drugs other than opium or coca leaves arriving in the United States on or after May 26, 1922, shall be dealt with in accordance with paragraph (d) Section 2 of the Act (i.e., will be liable to forfeiture).

(c) The definitions of opium, cocaine, preparation, and derivative, in the regulations in T.D. 38381 are adopted until otherwise ordered.\*

\*These are as follows:—

"These are as follows:—
(a) The term opium shall cover all forms of opium known to the trade, such as gum opium, powdered opium, denarcotised opium, and granular opium, except "smoking opium" and "opium prepared for smoking," the exporta-

opium" and "opium prepared for smoking," the exportation of which is absolutely prohibited.

(b) The term cocaine shall cover all forms of cocaine
known to the trade or pharmacy.

(c) The term "preparation" shall mean any product,
texture, or compound containing or representing more than
2 grains of opium or more than 0.1 per cent. of cocaine in 1
fluid ounce, or if a solid or semi-solid preparation in 1
avoirdunois ounce.

avoirdupois ounce.
(d) The term "derivative" shall include the following alkaloids, their salts or combinations, obtained either directly alkaloids, their salts or combinations, obtained either directly or indirectly, and such other derivatives obtained from opium or cocaine as it may be found necessary to include in the future: Morphine, codeine, dionin, diacetyl morphine, heroine, peronine, their chlorides, sulphates, phosphates, etc. and all mixtures, compounds, or preparations containing more than \( \frac{1}{4} \) grain of morphine, or more than \( \frac{1}{8} \) grain of heroin, or more than 1 grain of codeine in 1 fluid ounce or it solid or semi-solid in 1 ounce avoirdupois or more than 0.1 per cent, of cocaine, or containing any of the foregoing in 3 sufficient amount to produce its characteristic effect in the 1, smal doses. usual doses.

#### French News

(From the "C. & D." Paris Correspondent.)

Another hypnotic.—M. Roux informed the Academy of Sciences recently that a new hypnotic has been discovered by MM. Carnot and Tiffeneau; it is described as butvl-ethyl maloxylurate, and is three times as active as veronal, more rapid in action and as durable in its effects. It induces neither headache nor lassitude.

ZINC, says Dr. Roux, of the Pasteur Institute, is essential to animal life. MM. Gabriel Bertrand and Benzon made experiments on newly-weaned mice. Those fed with material, from which zinc had been carefully eliminated, died. The mortality among the others never exceeded 50 per cent.

Bacteriological legislation proposed.—The recent Girard case drew public attention to the fact that the sals of pathogenic cultures is not regulated by law. M. Gerald formally "deposited," some time ago, a draft Act regulating their sale. Professor Cazeneuve considers the text somewhat too drastic. He has drawn up a revised draft, which proposes that every establishment selling such cultures be instructed by the prefect of the department that none be delivered without an authorisation signed by a decear of medicine, a doctor of science, or a pharmacist, and that a register of such sales be kept.

THE MERRY MONARCHEMIST.—One of the papers for the recent International Congress of the History of Medicine was on Nicolas Lefevre, Charles II.'s chemist. Much has yet to be cleared up regarding the "Merry Monarch's" chemical career, but it seems probable that while an exile in Paris he attended Lefevre's "demonstrations" there, and thus acquired that taste for science which brought such remarkable results after the Restoration. For British science practically dates from this time. He invited Lefevre to London, and the French chemist died there some nine years after the Restoration and was buried at St. Martin's-in-the-Fields.

APATHY OF PHARMACISTS.—M. Prothière, propaganda delegate of the Interministerial Committee on Medicinal Plants, points out that the pharmaceutical profession in France has shown little or no interest in the post-war effort to assure an output of medicinal plants sufficient for home consumption, and of freeing the country from the necessity of buying ab oad. He hints that when the Pharmacy Bill comes under discussion, outsiders, who wish to extend the free sale of herbal remedies, might argue that pharmacists care little or nothing for such business, and might be deprived of it (by outside competition) without compunction.

Paris Society of Pharmacy.—At the July meeting M. Guerbet read a paper on the "Colouring Matter of Saffron." Crocine is very soluble in water, difficult to extract. Crocetine, which is obtained from it by weak acids, is completely insoluble in water, and can be collected on a filter. In concentrated sulphuric acid crocetine gives a fine indigo blue tint, which rapidly changes to green and then to brown. The same speaker communicated a note by M. Bouillot on the arsenates of strychnine. MM. Bougault and Gros spoke on the presence of acetone in all commercial ammonias. M. Bougault also read a note by M. Gros on the dosage of formic aldehyde, criticising the defects of the 1908 Codex processes. M. Bridel gave some observations by M. Charaux (a provincial pharmacist) on the sugar obtained from the manna of the "caroubier" (locust tree?), which he found identical with the pinite discovered by Berthelot in 1853 in the exudations of Pinus Lambertiana. M. Fabre described a reaction of veronal and allied hypnotics, such as luminal, dial, etc. All these compounds are easily combined, in acetic liquor, with xanthydrol, and give dixanthylated derivatives, easily identified by their solubility, their crystalline form, and their point of fusion. This reaction, he considered, might be utilised in the toxicological research of these bodies. The election of a Resident Member then took place, M. Laudat being the successful candidate. The Secretary terminated the proceedings with a few remarks on the forthcoming Pasteur Centenary in December.

#### South African News

(From "C. & D." Correspondents)
"The Chemist and Druggist" is supplied weekly to members of
the Chemists' Societies in South Africa

#### Rhodesia

Mr. Dyson H. Dyson, representing J. & E. Atkinso Ltd., is on a business visit to Rhodesia.

RHODES' BIRTHDAY (July 5) and Founders' Day (July) were observed as public holidays in Rhodesia.

Mr. Harold W. Smart, of Smart & Co., chemist Gwelo, Rhodesia, has gone on holiday leave to England Mrs. Smart and family preceded him by some week Many of their Buluwayo friends met them en route wish them a pleasant voyage and safe return.

## Pharmaceutical Society of the Orange Fre State

A GENERAL MEETING was held at Vickers' Building: Bloemfontein, on July 5. There were present: Mr. Carte (President), Mr. Weller (Secretary), Messrs. Prophe Gunn, Abelzon, Reid, Goldberg and Taylor (members The President congratulated Mr. Goldberg on havin passed the qualifying examination and wished him ever success in his future career. Mr. Reid brought forwar a prescription price list which was fully discussed an generally approved of. Mr. Prophet proposed that an prescriptions returned to customers be marked in the cypher "mel boracis," so that any other dispenser would not charge less than the previous one. This was seconded by Mr. Reid and carried. Mr. Taylor brough forward the matter of the Municipal Sick Fund, which in paying only 75 per cent. on their accounts, referred chemists to the members for the other 25 per cent., this being retrospective as from April 1. It was felt this action of the M.S.F. was unjustifiable, as no previous notice had been given. After discussion it was left to the individual members of the Pharmaceutical Society to deal with the matter as they thought fit. Messrs Reid and Carter (the Society's lecturers) reported that matters had been arranged with the Grey University College and the pharmacy classes were being continued as formerly Mr. Carter read a communication from the Nata Pharmaceutical Society re the Dangerous Drugs Regulations. This was left over for later consideration. A letter from a toilet-requisites company in reference to the cutting of prices of certain articles in town was read and discussed. A committee consisting of Messrs. Reid, Carte and Gunn with power to add to their number was appointed to deal with this matter. Mr. Carter informed the members that Evans Sons Lescher & Webb, Ltd., had kindly donated a materia medica collection to the Society for the use of the students, and a vote of thanks was accorded to the company for the gift.

#### New Books

Tables of Refractive Indices. Vol. II. Oils, Fats, and Waxes. Compiled by R. Kanthack. Edited by J. N. Goldsmith, Ph.D., M.Sc. 9 in. by 5½ in. Pp. 295. 25s. Adam Hilger, Ltd., 75a Camden Road, London, N.W. I. [Contains over 1,750 measurements carried out on over 500 oils, fats, and waxes, with references to the original source of the information. The bibliography contains nearly 500 entries. The left-hand side of the page is blank, for use in making notes. Many of the oils dealt with are out-of-the-way. The book is a valuable work of reference to all who use the refractometer.]

Maiden, J. H.—A Critical Revision of the Genus Eucalyptus. 12 in. × 9½ in. Vol. V., Parts 9 and 10; Vol. VI., Part 1. 5s. 6d. each part. Gullick, Government Printer, Sydney, N.S.W. [These three numbers bring the complete work up to Part 51. The Eucalypti dealt with ane: E. drepanophylla, E. leptophleba, E. Dalrympleana, E. Hillii, E. dichromophloia, E. Houseana, E. Jutsoni, E. adjuncta, E. pilularis, var. pyriformis, E. pumila, E. rariflora, E. Mundijongensis, E. Sheathiana, E. striaticalyx, E. tæniola, E. Stricklandi, E. unialata, E. Planchoniana, E. marginata, E. Irbyi, E. Yarrænsis.

#### Legal Reports

Dangerous Drugs Act Irregularities.—At Gloucester ty Petty Sessions, recently, Messrs. W. W. Grosvenor, D., F. H. Sprague, M.R.C.S., L.R.C.P., G. Bartle, emist and druggist, W. A. G. Woodman, chemist and uggist, and W. H. Hampton, chemist and druggist, re summoned in respect of contraventions of Regulams made under the Dangerous Drugs Act, 1920. They taded "Guilty" to technical offences. It was stated the prosecution that the doctors omitted to specify prescriptions their own names and addresses, and those the persons for whose use prescriptions were given, d the chemists failed to enter the dates on which e prescriptions were dispensed. The cases were dispessed on payment of costs.

Unlabelled Poisons Sold.—At West Ham Police Court, August 10, Alfred Joseph Dawson and Herbert Lott, ading as the D. & L. Manufacturing Co., Weston Road, laistow, were summoned for selling poison in an unlelled tin, contrary to the Poisons and Pharmacy Act. Raymond Negus, who prosecuted for the Pharmaceucal Society of Great Britain, said that it came to the brice of the Society in June that disinfectant fluid ntaining carbolic acid was being hawked in the streets unlabelled tins, and, in consequence, inquiries were ade and the origin was traced to the defendants' emisses. On July 4 an inspector went there and pursased a tin containing half a gallon of the fluid. No nestion was asked, and no label was attached to the n. The fluid was analysed, and it was found that, though it was not of exactly the same formula as arbolic acid, one wineglassful would have been a fatal ose. The defendants pleaded that they only did a ttle trade in the sale of the fluid, and the tins were ways labelled. During some weeks they had sold only ve gallons of the disinfectant. They had a small paratus capable of making six or seven gallons at a me. It was a side line. The omission of the label in e sale to the inspector was due to an oversight. A ne of £5 was imposed.

#### Bankruptcy Reports

Re Enrique Carreras and Alfonso Carreras, trading as a & E. Carreras, lately carrying on business at 207 King treet, Hammersmith, W. 6, as tooth-paste manufacurers.—The adjourned meeting of creditors under this ailure (C. d. D., July 15, p. 79) was held at the London ankruptcy Court on August 10, Mr. E. Park, Assistant official Receiver, presiding. It was stated that the debtor Enrique Carreras came to this country from pain in 1908 to join his brother in business, and they ubsequently carried on business under the style of N. & E. Carreras at 1994 King Street, Hammersmith, heir business consisting of the manufacture of toilet-preparations and a tooth-paste known as Enolin. They ach put £1,000 into the business to start it, and took lease of 1994 King Street for thirty-eight years at 2350 per annum. In January 1919 a limited company was formed, under the style of A. & E. Carreras, Ltd., o control their various interests in different businesses. The nominal capital of the company was £100,000, and t controlled not only the Enolin tooth-paste, but certain rinemas in which they were interested. The debtors were appointed manager and secretary respectively, and hey each drew a salary of £2.000 a year. The company was a great success until the end of 1920, when, owing to the differences between the debtors and chairman of the company, it was arranged that the debtors should take over the Enolin tooth-paste business as their sole property. Shortly afterwards they embarked on a new advertising scheme in regard to the tooth-paste and paid away £7,000 in prizes. The statement of affairs filed by the debtors showed gross liabilities amounting to £24,721 5s., of which £20,606 7s. 6d. was expected to rank. The assets were estimated to produce £2.565. from which preferential claims had to be deducted amounting to £114, leaving the net assets at £2,450. and showing a deficiency of £18,155. It was decided

that the debtors should be adjudicated bankrupt, and that Mr. David Hart, accountant, 5 Argyll Street, W., should be appointed trustee, with a committee of inspection. The trustee's bould was fixed at £2,500. A committee of inspection was appointed, consisting of Messrs. A. Knight, H. Kerman, G. R. Hardy, S. Thorning, and N. Shaffer.

#### New Companies

#### and Company News

P.C. means Private Company and R.O. Registered Office

Thrivo Fertilizers, Ltd. (P.C.).—Capital, £2,000. Objects: To take over the fertilising and sterilising business carried on by J. M. Kelly at 60 Norwood Avenue, Southport, as "Thrivo." R.O.: 60 Norwood Avenue, Southport

WILLIAMS, CHEMISTS, LTD. (P.C.).—Capital, £600. Objects: To acquire the business of a chemist carried on by R. H. Williams at 115 Great Thornton Street, Hull. The first directors are: Mrs. F. H. Jones, 291 Beverley Road, Hull (permanent director and chairman); R. H. Williams, 115 Great Thornton Street, Hull. R.O.: 115 Great Thornton Street, Hull.

SEALENE. LTD. (P.C.).—Capital, £500. Objects: To acquire from J. W. Bell and J. G. Prestwich a certain invention for sealing corks, known as "Sealene," and to carry on the business of manufacturers, importers and exporters of and dealers in preparations and contrivances or devices for sealing or covering the openings in bottles, etc. R.O.: 14, Broad Street, Lower Moss Lane, Manchester.

SUPERFLORO, LTD. (P.C.).—Capital, £5,500. Objects: To take over the business of perfumers and general export and import merchants and agents carried on by H. B. Layton and R. Mareau at 31 Duke Street, Aldgate, E.C., as Layton & Salter. The first directors are: J. T. Grein, 24 Launceston Place, Kensington, W. (chairman); R. Mareau, Oak Villa, Eastwood Road, Rayleigh; H. B. Layton, Hangrove Park, Edenbridge; Mrs. B. Layton, Hangrove Park, Edenbridge. Secretary: R Mareau. R.O.: 31 Duke Street, Aldgate, E.C.

Harold E. Closs & Co., Ltd. (P.C.).—Capital, £10,000. Objects: To carry on the business of silk mercers and weavers, cotton spinners, cloth manufacturers, dealers in textile fabrics, milliners, tailors, hatters, clothiers, outfitters, boot and shoe makers, manufacturers of and dealers in leather goods, furniture, ironmongery, stationery, fancy goods, provisions, drugs, chemicals, etc. The first directors are: H. E. Closs and A. T. Evans. Solicitors: Kenneth Brown, Baker, Baker, Lennox House, Norfolk Street, Strand, W.C.

Coleman's Tonic Cocoa Co., Ltd. (P.C.).—Capital £6,000. Objects: To adopt an agreement with S. J. Tallowan for the acquisition of the business of a cocoa merchant and manufacturer, together with the formulas and secret process for the manufacture of certain preparations known as "Coleman's Tonic Cocoa," "Coleman's Tonic Cocoa Cubes," "Malto" and "R.T.B." ("Renowned Temperance Beverage") and the trade marks referring thereto. The first directors are: S. J. Tallowin (managing director), A. C. Raffe, S. C. Toynbee, H. C. Hobbs, and A. Frampton. Registered by A. Lovekin, 171 Queen Victoria Street, London, E.C.

HEXORAN Co., Ltd. (P.C.).—Capital, £500. Objects: To acquire letters patent No. 17,100 of 1910, and take over as a going concern the Hexoran department of the business of a chemical manufacturer and merchant carried on by Carl Goedecke at 68 Major Street, Manchester, and at 13 The Hive, Mosley Road, Trafford Park, Stretford, Lancs., as Stock & Goedecke. The first directors are: Carl Goedecke, Longford Lodge, Groby Road, Dunham Massey; W. Wray, 165 Barlow Moor Road, West Didsbury. R.O.: 68 Major Street, Manchester.

JAMES KAY & SONS, LTD. (P.C.).—Capital, £52,000. Objects: To take over the business of manufacturers of

and dealers in soap, chemicals, dyes and oils carried on by T. R. Kay and H. Kay at the Britannia Soap and Chemical Works, Ramsbottom, Lancs., as James Kay & Sons. The first directors are: T. R. Kay, 98 Cambridge Road, Southport, soap manufacturer (chairman); H. Kay, Pontac House, St. Anne's Road, Blackpool; J. H. Kay, Fairfields, Dundee Lane, Ramsbottom; J. Kay, 21 Dundee Lane, Ramsbottom; T. T. Kay, 19 Prescot Street, Bury. R.O.: Britannia Soap Works, Kenyon Street, Ramsbottom.

Fertilisers (Manchester), Ltd. (P.C.).—Capital, £3,000. Objects: To take over the business of manufacturers of soil tonic and fertilisers, manufacturing chemists, and chemists' agents carried on by S. Drake, J. A. Birchenough, and J. T. Clarke, at 27 Birch Street, City Road, Hulme; at 4 Warehouse, The Hives, Mosley Road, Trafford Park; and at 43 York Street, Portland Street, all in Manchester. The first directors are: S. Drake, 52 Delph Lane, Leeds, traveller (chairman); J. A. Birchenough, 16 Albion Street, Brooks Bar, Manchester, sales manager; J. T. Clarke, 27 Seymour Grove, Old Trafford, office manager. R.O.: 43 York Street, Portland Street, Manchester.

COMPANY DISSOLVED.—Notice is given in the "London Gazette" that the name of the Premier Perfumery Co., Ltd., has been struck off the register and the company dissolved.

Deconter Co.—Particulars were filed pursuant to Section 274 of the Companies (Consolidation) Act on July 5. Capital is 1,000 dollars, in 100-dollar shares. The company was incorporated in State of Illinois, U.S.A., on March 31, 1922, to carry on the business of manufacturers of and dealers in tooth-brushes and toilet articles, etc. The British address is 42 Holborn Viaduct, London, E.C., where P. A. Harrison is authorised to accept service.

Society of Chemical Industry in Basis.—The accounts for the year ended December 31, 1921, show a net profit of 1,471,800 fr., compared with 3,190,503 fr. in the preceding year. The trading profit, including the return from the various subsidiary companies, amounted to 6,782,360 fr., against 6,982,112 fr. for the year 1920. This is due to the fact that the cost of manufacturing had been considerably reduced during the year. General expenditure being only slightly more than for the previous year, and a new item of 1,133,413 fr. for interest on the newly-created debcntures, reduced the nct profit to the above figures, and it is proposed to pay a dividend of 7 per cent. on the share capital of 20,000,000 fr. compared with 15 per cent. last year. The report points out that owing to the careful policy of the company during the year in the matter of purchasing raw materials, it was possible to avoid losses on stocks. On the other hand, there was a further decline in sales, and the prices obtainable for most of the company's products were steadily falling.

UNITED DRUG Co.—The "Financial Times" states that "the earnings of the United Drug Co. of America exhibit a substantial recovery during the first half of the current year. The sales amounted to \$28,472,800, against \$28,409,100, and cost of merchandise and operating expenses both recording a decrease net revenue at \$1,678,900 registers a gain of \$487,400. After interest charges and preferred dividends there is a balance of \$427,000, which raises the accumulated surplus to \$1,283,300, or \$409,000 more than at the corresponding date of last year. This surplus is equal to not quite \$1/4 per cent. on the common stock, and it has not yet been decided to resume ordinary dividend payments, which were suspended last October. In the latter half of 1921 a heavy loss was sustained, chiefly through the writing down of stocks, and the deficit for the whole year was \$824,300. If the improvement shown in the first six months is kept up a distribution after the balancing of the accounts in December may be possible. It is pretty certain for one thing that the company will again derive a substantial income from its interest in the Boots Pure Drug through its holding in Liggett's International."

# Pharmaceutical Society Of Ireland

#### Council-meeting

THE monthly meeting of the Council was held at the Lower Mount Street, Dublin, on August 8, Dr. A. Barnes (President) in the chair. The following member of the Council were also present: Dr. J. A. Walsh Messrs. D. M. Watson, G. D. Beggs, J.P., John Smith A. H. Oliphant, W. J. Hardy, J. E. Connor, J.P. A. Wilson, J. Carroll Culbert, T. F. Storey, G. A. McLean Lee, S. Suffern, and F. J. Fitzpatrick.

#### WELCOME FOR NEW MEMBER

The PRESIDENT said his first duty was the ver pleasant one of announcing that they had with ther their new member of the Council, Mr. Fitzpatrick, an of asking them to extend to him a very cordial welcom among them. (Applause.)

Mr. FITZPATRICK thanked the President and othe members of the Council very sincerely for the reception they had given him. He would do all he could on the Council. He had always been interested in the Society

#### RESIGNATION OF MR. JAMES TATE

The REGISTRAR mentioned that he had written to Mr James Tate, Belfast, stating that it was the unani mous wish of the Council that he should reconsider hidecision to resign from the Council. Mr. Tate replied

decision to resign from the Council. Mr. Tate replied I regret that I cannot see my way to alter my decision During the many years I have had the honour of being a member of the Council, where harmony has been so conspicuous and brotherliness a leading characteristic, the severing of these ties causes me a pang of sorrow. Henceford I shall always retain the happiest memories of my association with each individual member, and shall not cease to take a special interest in the welfare of the Society. To you personally, Mr. Registrar, and to the Council individually I tender my warmest thanks for courtesies and kindnesse received at all times. I may add that it is my sincere wish that the Society may still grow in unity, harmony and use fulness, as in the past, and so shine as a bright and luminous star in this dear isle.

The President said there was no option but to receive Mr. Tate's resignation.

#### Changes of Address

The following wrote notifying changes of address: Mr. P. J. D'Arcy, Ph.C., to Manager, Drug Department, Clery & Co., Ltd., O'Connell Street, Dublin; and Mr. C. A. S. Gillespie, P.A., 1,118 No., State Street, Chicago, U.S.A.

#### SEALING OF PHARMACEUTICAL LICENCES

On the motion of Mr. Beggs, seconded by Mr. Connor, the Pharmaceutical Licences of the following were directed to be sealed: H. McGalliard, D. J. Patterson, R. A. E. Simmons, E. J. Nolan, W. S. Black, Eileen M. West, T. J. Barrett, P. A. Ussher, Sophie Hosford, Elizabeth M. O'Flanagan, J. C. Loughnane, and F. M. Hartnett.

#### Nomination

On the motion of Mr. Fitzpatrick, seconded by Mr. Storey, Mr. Denis J. Nugent, Ph.C., The Pharmacy, Terenure, Dublin, was nominated for membership.

#### REPORTS FROM EXAMINERS

The REGISTRAR submitted reports from the Examiners upon the Preliminary, Pharmaceutical Licence, and Registered Druggist examinations. For the Preliminary examination twenty-five candidates presented themselves, of whom fourteen passed, one, Mr. William Alexander Hill, passing with honours. For the Pharmaceutical Licence examination twenty-four candidates presented themselves, of whom twelve passed; two passed with honours, and one of the two, Mr. David John Patterson, of Newtownards, received gold medal marks. Eighteen of the candidates were young men and six were young ladies. Half of the young men and half of the ladies passed. There were three candidates for the Registered Druggist examination, all of whom passed.

Ir. HARDY asked what was to happen in the case of se candidates who had been unable to travel to the minations.

he President asked the Registrar whether there were candidates who had entered but were unable to be sent at the examinations owing to the absence of

velling facilities.

The REISTRAR said there were several in the case of Preliminary examination. One of these candidates gone to London, and another decided to go for Matriculation examination of the Queen's University. both of these cases cheques had been drawn to und the fees. In any case in which the candidates not want the fees back they were assured that se fees would stand good for the October examination.

#### REPORTS FROM COMMITTEES

Reports were received from the Law Committee and House Committee, and were adopted.

#### Co-option of a Member

Mr. HARDY asked was it absolutely necessary to co-opt member of the Council at that meeting in place of . Tate.

The President said that by co-opting a member at t meeting it would give him the opportunity of ending at least one meeting of the Council—the ptember meeting—before the annual election.

Mr. HARDY said the new member, whoever he might, would not attend the September meeting, because would have to go through a contested election afterrds. He would not sit at one meeting of the Council. there was any means of postponing the co-option would suggest that it should be postponed.

The PRESIDENT: I could not postpone it beyond Sep-

nber. It must be to-day or at the September meeting. Mr. HARDY said that in that event he would propose at Mr. Robert F. McCartney, Ph.C., of Coleraine, co-opted. He proposed Mr. McCartney because he us an influential man in his district. He was an inde-endent in every sense of the term. He was a man ry much accustomed to public offices. He had recently ne out of the chair of the Urban Council, which he d occupied for two or three years, and he was still member of that body. He felt that in proposing r. McCartney he was proposing a man who, if he re put up before the electors, especially in the orthern area, would command a large percentage of the tes—60 or 70 per cent.—of the Northern Licentiates. r. McCartney had told him that he would act. For very long time-as far as his memory went back in e Council, and even before it-there were about eight embers of the Council from the Northern area, from lster. At one time he should think that of those ght members of the Council about five resided in elfast and the other three in the large towns outside He felt that at present Belfast had quite fficient representation on the Council, even with ate out of it. It still left six members from Belfast. he rest of the North of Treland should not be dis-nfranchised. There was now only Mr. Connor, of Newry, hich was one of the border towns. The other towns of the counties of Derry, Antrim, Down and Fermanagh ere not represented on the Council. Some of these urge towns had their own politics. He was proposing Ir. McCartney as he thought he was the most suitable and influential member they could get, and as he ertainly was a man of large experience in public life.
Mr. CONNOR seconded the proposal for the co-option

Mr. Warson supported the proposal. He said Mr. McCartney and he were fellow-students, and they had assed the examination on the same day. vatched Mr. McCartney's career with interest. teadily ascended from one height to another in public

after and he certainly agreed with Mr. Hardy that Mr. McCartney would be a most desirable member of the Council. Mr. Hardy had made a statement which ppealed to him very much—that they had six representatives on the Council from Relfact. entatives on the Council from Belfast. It would be ar from him to suggest that Belfast did not represent

he whole of the North of Ireland, but he agreed with he view that they had quite sufficient from Belfast.

It was agreed that they should allow this vacancy to be filled territorially, which was a plan he did not always agree with. On this occasion he would support Mr. McCartney's co-option. Mr. McCartney was unanimously co-opted.

#### A QUESTION OF APPRENTICESHIP

Mr. Storey said that with regard to the Preliminary examination, whenever an apprentice or another candidate passed the Preliminary examination he became registered automatically. He wished to know, in the case of a person who passed the Qualifying examination of an outside body and became registered afterwards, whether the period for his apprenticeship counted from the time of registration or from the time at which he passed the examination.

The Registrar: From the time he passed the examina-

#### THE NEW TREASURER.

Mr. Storey said he was not able to be present at the last meeting, and he would like heartily to congratulate Mr. Watson on his election as hon, treasurer. They could not have appointed a better man. They would do all they could to help him, and if they could pick a hole in him they would do it with great pleasure. (Laughter.)

Mr. Watson said he was much obliged to Mr. Storey. the did not know whether he was speaking for the other Northern members or not. If he was he was still further obliged to him. He would do all he could to succeed; and he hoped the Northern members did not think that in twing to nick holes in him than not think that, in trying to pick holes in him, they would upset him. (Laughter.) Nobody should dream of being above criticism. He would enjoy all the of being above criticism. criticism he got.

#### **Practical Notes and Formulas**

MASKING EPSOM SALTS

Epsom salts			8 ounces.
Saccharin			12 grains.
Extract of vanill	a	***	1 ounce.
Glycerin			2 ounces.
Water q.s. to			1 pint.
	F3.11	/66 15 11	C Tris

Use carmine to colour. Filter. ("Bull. of Pharmacy.")

#### TERPIN HYDRATE CAPSULES

Among the formulas appearing in the "American Druggist" recently are the following:

... 30 grains. Terpin hydrate ... 4 grains. ... 116 grains. Powdered ipecacuanha Milksugar Mix and make 30 capsules. One every 3 or 4 hours.

#### Non-poisonous Hair Wash for Nits

Quassia in No. 20 pow	der				300 gm.
Acetic acid					15 mil.
Salicylic acid					6 gm.
Glycerin				• • •	60 mil.
Spirit of camphor	***	• • •	• • •	***	10 mil.
Spirit of rosemary	• • •				10 mil.
Alcohol					150 mil.
Rose water					250 mil.
Distilled water q.s. to				4	1000 mil.

Boil the quassia in 3,000 mils of water for 15 minutes; when cold, strain through muslin. Add the rest of ingra-dients, and make up to 4,000 mils with water. Allow to stand for 12 hours before filtering.

#### ROOT BEER EXTRACT

The following is from the "American Druggists"

i Curai								
Fluid	extract of	of sars	aparill	a				drams.
	extract							drams.
	extract			en	• • •			drams.
	extract		rice		•••	•••		drams.
	winterg			• • •	***			minims.
	fsassafra				• • •			minims.
Oil of	cloves	4.1					12	minims.

To use this, add 9 gallons of water, 1 gallon of refined molasses, and, lastly, 1 quart of yeast. Keep in a warm place. After the mixture has fermented for 24 hours, strain it through flannel, let it stand a short time, take off the scum and place in bottles.

#### "Out of the Rut"

A COUPLE of London "pills," with a few others, have recently completed a seventeen days' tour of 2,000 miles to Vienna and back, via Belgium and Germany. It often meant rising early and retiring late; it was at times bewildering in its frequent changes; it occasionally meant suffering minor hardships—going through the Customs is a necessary pleasure which we were forced to carry out nine times—but we gained in experience and knowledge, abstracted a considerable amount of enjoyment from it, and finished none the worse for our adventure. Of course one has the usual reaction; but, in this cose, it was well worth it.

Rising early one morning, we eatch the 8.55 boat train from Victoria Station, and are soon at Dover and cross to Ostend. A fast train takes us to Brussels, where we dine and test the lager. On again, and we are at Aachen (Aix-la-Chapelle) before midnight. Not a bad day's work—equal, I should estimate, to about a hundred N.H.I. scripts. The next day sees us in the train for Cologne, where you can buy an 8-oz. bottle of the water for 2s. We pass coal-mines; notice women working in the fields, and oxen drawing their loads. All the way to Vienna every inch of land that can be is cultivated. We leave Cologne by boat for Königswinter. Here we find time to race on donkeys up the Drachenfels (1,070 ft.). The next day we spend on the Rhine as far as Rüdesheim—passing the famous Lorelei rock and the bridge of boats at College.

and the bridge of boats at Coblenz.

The scenery of the Rhine is vastly different from anything that I have seen before, chiefly for its numerous castles towering above one, first on this side and then on that, taking one's mind back to days gone by, and giving play to the imagination. What "scraps" and fun they must have had! Twenty-four hours is not sufficient time for Nürnberg, which is a fine old city with its stone bridges, city wall and deep moat; but, without special permission, this is a foreigner's time limit. We view Nürnberg Castle, seeing the Kaiser Chapel, a well 308 ft. deep, and also the pentagonal tower (the oldest building in the city), with its antiquities and instruments of torture, including the "iron virgin." Later we view the house and statue of Albrecht Dürer, the famous artist. Our time is up, so we must move on to reach Regensburg (Ratisbon) before night.

The next morning we motor out of the town to see Walhalla—a monument devoted to the past and future fame of Germany. It is a magnificent building, standing 304 tt. above the Danube, composed of white marble, surrounded by mighty Doric pillars, and approached by 250 marble steps. It has a beautiful interior, and contains many busts and tablets, one of the latter to the memory of Egbert, first King of England, and another to Alfred the Great. From Regensburg we train to Passau, thence to Linz. This night we sleep on a stationary boat, which moves out the next morning towards Vienna. We travel fast down stream, and reach Vienna within a week of leaving London.

At Vienna we view many of the beautiful apartments

At Vienna we view many of the beautiful apartments of the old imperial castle, and notice many exceptionally fine tapestries, the imperial chapel and the imperial picture-gallery, which possesses masterpieces of almost every school in the world. In the afternoon we taxi to Kobenzl and back for a mere 70,000 kronen, and in the evening find ourselves at the theatre, listening to the music of "Cavalleria Rusticana." The next morning, wishing to do a little shopping, we go to a bank, and in return for a £5 note receive half a million kronen! A trip to Schönbrunn (an imperial castle) whiles away the afternoon. At 10 o'clock in the evening we are on our homeward journey. After an extremely hot day it is a pleasing relief to remain on deck until I a.m., enjoying the experience of a moonlight trip on the Danube on a perfect night. Arriving back at Linz, we make for Pöstlingberg (500 metres up) and dine. Champagne is not a serious item here, at little more than a shilling a bottle. The next day we train to Salzburg and motor round the town. Setting off again, we reach Zell Am See during the evening. Another day, and we find ourselves well in the Tirol.

We go through Innsbruck and appreciate the grandew of the Austrian Alps. We pass over an imposing bridge 280 yds. long and 180 ft. high, which crosses the Trisanna river. Later we pass the Riffler mountain (10,365 ft.). Further on we rush into the Arlbert tunnel,  $6\frac{3}{3}$  miles in length, at a height of 4,300 ft. and we do not see daylight again for 17 minutes. We arrive at Bregenz, and cross Lake Constance via Lindau to Constance.

Now for the Black Forest. The prettiest scenery of all the tour is seen from St. Georgen to Hornberg. We reach Karlsruhe, but move on to Heidelberg. This is a fine old university city and the castle is of interest In it one can find a wine-cask which holds 220,000 litres it has been filled only three times. Heidelberg Castle stands high, but we ascend higher to Königstuhl (1,86 ft.), and have a glorious view of the city and the country around for many miles. We finish up at a student beer-house, listening to their singing until midnight From Heidelberg we travel back to Cologne via Main It looks strange to see the British "Tommy" marching along the streets of Cologne, but somehow very homel and comforting. The next dey we make an excursion out of Cologne to Bonn. Going on to Mehlem, we crost the Rhine by ferry and visit Königswinter again Before returning to Cologne we ascend Petersberg another of the "Seven Hills." From Cologne we to Brussels, and stay the night at the Palace Hotel where there is every convenience known to civilisation After a few hours' sightseeing, we make for Ostend and finish up at the Kursaal, where they have at excellent orchestra. Beginning to realise what "rat of exchange" means, we make tracks for home. So the following morning, in spite of an angry sea, we board the mail steamer "Jan Breydel" and cross the Channel I am the possessor of a broken box of cigarsforty-seven, to be exact. I think if there had bee forty-eight I should have failed to get through the Customs with them. Lastly, this question persists in running through my head: "Where did you buy tha Kodak?"—G. B. D. (8/8).

#### Wills

Mr. William Bush, St. Issey, Stanley Road, Hornchurch, Essex, chemist and druggist, who died on June 16 left estate valued at £647. Administration of the property has been granted to his grandson, the Rev. Edwardsimpson Matthews, 21 Westbourne Square, W.

MR. DAVID RAINY BROWN, F.R.S.E., manufacturin chemist, of J. F. Macfarlan & Co., Edinburgh, and Moc Lane, London, E.C., who died on January 9, left per sonal estate in the United Kingdom valued a £79,515 13s. 5d., of which his interests in Messrs. J. F. Macfarlan & Co. amount to £77,754. Probate of his trust disposition, and settlement has been confirmed in Londo in favour of his widow, Mrs. Jeanie Brown, 97 May field Road, Edinburgh.

Mr. George Bennett, J.P., Macaulay House, Daver port Crescent, Stockport, chemist and druggist, a forme President of the Manchester and North of England Optical Society, one of the founders of the National Institut of Ophthalmic Opticians, and formerly a member of the Town Council, who died on February 15, left estate of the gross value of £6,625 16s. 3d., with net personalt £2,015 2s. 6d. Probate of his will has been granted this widow, Mrs. Mary Ellen Bennett, the sole executive to whom he left all of his property absolutely.

Dr. John Theodore Merz, Ph.D., LL.D., D.C.L. The Quarries, Grainger Park Road, Newcastle-upon-Tynchemical manufacturer, a director of the Blaydon Manuand Alkali Co., Ltd., and of several other companies, with died on March 21, left estate of the gross value (£18,980 4s. 9d., with net personalty £18,835 13s. 4d. Heft £100 each to his wife and his two sons, and the tresidue of his property as to one-half to his wife absultely, and one-half upon trust for her benefit for lift with remainder to his children or their issue, in equivalence.

#### **Empire Patents Conference**

RISING out of a memorandum drawn up by the Comproller of the United Kingdom Patent Office in Decemroller of the United Kingdom Patent Office in Decem-per 1919, a conference of representatives of the Patent Offices of the British Empire was held in London during ast June. The official report, which has just been issued Stationery Office, 1s. net) shows that delegates were resent from all the self-governing Dominions (excepting Newfoundland) and from India: there was also a delegate epresenting the Colonies and Protectorates. No wit-lesses were called. The following extract from pages 4-6 the report indicates the present position in respect of f the report indicates the present position in respect of btaining protection for patents overseas:

At present, in order to obtain patent protection through-At present, in order to obtain patent protection throughout the British Empire, separate applications must be made in the United Kingdom, in each of the self-governing Dominions and India, and in all the Colonies and Protecorates. Omitting the native States in India, certain proceeded territories in the Malay Peninsula and some other mall territories, where it is not clear that any provision exists for the protection of inventions, the separate applications necessary would appear to number at least 46. On all such applications fees are payable, and the initial payments amount to £5 in the United Kingdom, to £32 in the self-governing Dominions and India collectively, and to about £50 for the Colonies and Protectorates. For the maintenance of the patents granted to such applications renewal enance of the patents granted to such applications renewal ees are payable in the United Kingdom, and three of the elf-governing Dominions and in India, and also in the najority of the Colonies and Protectorates. These renewal ees amount to £125 in the United Kingdom to £84 in the elf-governing Dominions and India collectively; and to pproximately £1,000 for all the Colonies and Protectorates.

#### THE SCHEME DESIRED

After adopting a resolution setting forth the desirapility of instituting a British Empire patent which will eave intact the autonomy of the self-governing Dominions nd India and will preserve the rights at present enjoyed by inventors, the Conference proceeded to examine various chemes for effecting this object. After the rejection of several, the following was adopted as the one to be ventually put in force:

(a) The existing rights of the United Kingdom, the self-governing Dominions, and India to grant patents in accordance with their laws and within their own territories obe maintained in full

(b) The establishment of a Central Patent Office for the (b) The establishment of a Central Patent Office for the reception and examination of applications for, and the grant of, patents which shall extend to the United Kinglom, or to any of the self-governing Dominions, or to India, upon registration in the particular territory in which crotection is desired. The application for registration to be open to opposition before registration is actually effected.

(c) The Central Patent Office, in examining applications submitted to it, to make a search co-extensive with the field at present covered by the searches now made in the United Kingdom, the self-governing Dominions and India col-

(d) The scheme suggested above to be equally applicable o all the Colonies and Protectorates, subject to the qualification that the application for registration shall not be open to opposition unless the existing law makes provision for the hearing of opposition to the grant of patents, but in any case the local Courts to be empowered to declare that an exclusive privilege has not been secured in tho territories within their jurisdiction.

(e) The fees for registration to be of such amount as would esult in a considerable reduction in the total cost of obtaining patents throughout the Empire at the present time.

Among the advantages claimed for this scheme are the probable diminution in agency fees, the enhanced com-mercial value of any patent so granted, the encouragement of applications in various parts of the Empire, and the further bond of Imperial union created. Among the observations made in the report under this heading are the following:

Universal Search.-In connection with this scheme the Conference had before it the question of the extension of he search made by such Central Office to include all publications throughout the world. Such a search was professed to be undertaken by the Patent Offices of Germany and the United States of America, and it appeared to be the case that an additional commercial value was placed upon any patent which had been examined and issued by those Offices, notwithstanding the fact that many of the patents granted in Germany and the United States were subsequently found by the Couris to be invalid. The Conference was of opinion that to undertake a really efficient search of this magnitude was impracticable, having regard to the extent of the material which would be necessary and the expense involved. In view, however, of the feeling of the commercial community, upon this point they considered commercial community upon this point, they considered that the question of the establishment of a search on the lines of the German and United States of America Offices might well be reconsidered later if experience of the wider search proposed in the scheme recommended above showed such further extension of the search to be in any way feasible or practicable.

National Treatment.—The Conference agreed that an arrangement of this nature ought to be treated as a domestic matter, affecting only the relations of the various domestic matter, affecting only the relations of the various parts of the British Empire inter se, and that as a Dominion in accepting such a scheme might desire to confine the advantages and privileges to persons who are British subjects and those who are under British protection, it would be unfortunate if any obstacle existed to the exercise of its discretion upon this point.

Uniformity of Law and Practice.-The Conference further agreed that the successful working of such a scheme would also depend upon uniformity of law and practice throughout the British Empire. In particular, it would appear to be necessary to have an agreement on the definition of the word "inventor," and the rights of importers to obtain a patent. On both these points there was at present a divergence of practice between the United Kingdom and some of the Dominions.

#### TEMPORARY SCHEME

In view of the difficulty and expense of equipping a central office, the Conference adopted the following provisional scheme:

(a) Existing rights of the United Kingdom, self-governing Dominions and India, to grant patents in accordance with their laws and within their own territory to be maintained

(b) The patent obtained by examination and grant in the United Kingdom Patent Office to extend to any of the selfoverning Dominions or to India upon registration in the particular territory in which protection is desired; the application for registration to be open to opposition, and to any lawful objection which the head of the Patent Office where registration is applied for may think fit to raise, before legislation is actually effected.

(c) The scheme suggested above to be applicable to any of the Colonies and Protectorates with such modifications as may be suitable to local requirements and administrative

The Conference was of opinion that whether or not the schemes suggested for a British Empire patent were found to be practicable, it was of the highest importance that both the procedure and practice in respect of the grant of patents should be uniform throughout the British Empire A substantial uniformity had been obtained in grant of patents should be uniform throughout the British Empire A substantial uniformity had been obtained in many matters, but there was still room for further assimilation in many important points. It was agreed that the term of a patent throughout the Empire should be, "as far as possible," sixteen years, subject to the discretion of any Dominion to grant a longer term. On the question whether an "importer" might properly be regarded as a "true and first inventor," there appeared to be a divergency of practice in the Empire, but it was generally agreed that the matter was not now of so generally agreed that the matter was not now of so great importance as formerly in view of the rights granted under the Industrial Property Convention and similar arrangements, and of the facilities of publication and communication between the various countries. was, however, agreed by the majority of the delegates that the old doctrine that a person merely introducing an invention without the consent or approval of the real inventor is entitled to patent protection might now be profitably reconsidered. The doctrine undoubtedly led in some instances to an importation being made in fraud of the real inventor, and a valid patent being obtained thereon. The final section of the report (which is followed by some interesting appendices) records the fact that the Conference was the first meeting which has ever been held of experts and representatives of the Patent Offices of the British Empire.

#### Reviews of Books

Industrial Hydrogen. By Hugh S. Taylor, D.Sc. 9<sup>t</sup><sub>4</sub> in.
 by 6 in. Pp. 210. \$3.50. New York: The Chemical Catalog Co., Inc., 1 Madison Avenue.

This is the fourth of the series of chemical monographs produced by the American Chemical Society. The preparation of hydrogen in modern times has reached an importance which could not have been anticipated in the nineteenth contury. This monograph classifies the systems of production and deals with each class in details, a final chapter being devoted to the purification and testing of hydrogen. It is the most complete work there is on the subject, and includes all the newer processes.

Organic Chemistry, or Chemistry of the Carbon Compounds. By Victor von Richter. Vol. II. Chemistry of the Carbocyclic Compounds. Translated by E. E. Fournier D'Albe, D.Sc. 9 in. by  $5^3_4$  in. Pp. 760. 35s London: Kegan Paul, Trench, Trübner & Co., Ltd., Broadway House, 67-74 Carter Lane, E.C.

Richter's well-known work is divided into two volumes, the first dealing with the aliphatic series and the present one with the carbocyclic compounds. The eleventh German edition from which the translation is made was brought out in 1912, and although ten years have elapsed the progress of organic chemistry, from various causes, has not greatly advanced in the intervening period. The two sections of the book are (1) Tri-, tetra-, penta-, hepta-, ccto-, and nonocarbo-cyclic compounds; and (2) Hexacarbocyclic compounds. The latter section is subdivided into (A) mononuclear aromatic substances or benzene derivatives; (B) hydro-aromatic substances with single nucleus, hydro-benzol derivatives; (C) aromatic hydrocarbons containing several nuclei. The condensed style of the information is characteristic of both volumes.

Some Micro-Chemical Tests for Alkaloids, including Chemical Tests of the Alkaloids Used. By Charles H. Stephenson and C. E. Parker. 9 in. by 6 in. Pp. 110, 27 plates (162 photomicrographs), and folding table of reactions. 21s. London: Charles Griffin & Co., Ltd., 12 Exeter Street, Strand, W.C.2.

The authors began the work on micro-chemical tests for alkaloids in 1907 for the purpose of detecting cocaine. Since then the tests of sixty-four alkaloids have been worked out. Thirteen of the alkaloids used were of doubtful purity, and are not recorded in the book. The tests on forty-eight alkaloids are stated to be quite satisfactory, the greatest number of crystalline precipitates being obtained with strychnine, berberine, tropacocaine, and brucine. Details are given of the strength of the solutions of the alkaloids employed and the formulas for the reagents. A scheme for identification of alkaloids, a table of the best reagent for each alkaloid, and a chapter (the longest in the book) with details of the tests are also given. The plates of photomicrographs are excellent, and the folding plate of micro-chemical reactions on various alkaloids from aconitine to yohimbine shows 386 crystalline results. The book is invaluable to chemical analysts and pharmacologists.

Nachweis und Bestimmung der Gifte auf Chemischem Wege. By W. Autenrieth. 10 in. by 7 in. Pp. 420. Berlin: Urban & Schwarzenberg.

Professor Autenrieth's work, of which the present is a new edition, is recognised as the standard textbook on toxicology in Germany, and is largely used in the instruction of the pharmacists at the universities. The general procedure in dealing with material assumed to contain a poison is set forth, the poisons being divided into various groups, such as those which distil over with steam, those which may be extracted by distilling with alcohol to which tartaric acid has been added, and a third group-including the metallic poisons. The single substances to be detected are exhaustively dealt with, and their various reactions given in detail. The work has been brought

up to date by the inclusion of several of the newer synthetic drugs, many of which do not fit in any of the three principal groups, all such poisons being discussed in a special chapter. Among the latter we find methods for detecting dionin, heroin, yohimbine, novocain, orthoform, stovain, suprarenin, digitalis bodies, saponins. The detection of arsenic, of methyl alcohol, and of formaldehyde is very fully dealt with, several references being made to British and American authors. The value of the work would be enhanced were it provided with an index.

Les Relations Economiques entre la Grande-Bretagne et la Suisse dans le Passé et le Présent. By William Waldvogel. 6 in. by 9 in. Pp. 276. 7s. 4d. post free. Imprimerie W. Henry, Neuveville, and the Frederick Printing Co., 21 Garlick Hill, London, E.C.4.

In this work the author, after reviewing the numerous religious, political and literary relations between Switzerland and Great Britain during the course of the past centuries, deals in detail with the commercial relations between both countries. It is interesting to note that among the earliest mentions of trade intercourse between both countries is one to the effect that in the year 1536 two Englishmen, William Petersen and John Burcher, while studying theology in Switzerland, manufactured bows from trees they were permitted to cut down in Glarus and the neighbourhood of Zurich, and which they sent to England. Richard Hilles was apparently the first London merchant who, in 1540, initiated a regular exchange of goods, exporting to Switzerland cloth and cheese. It would lead too far to follow the interesting growth in trading between the two countries; the unsuccessful attempt to conclude a treaty under William III., the convention of April 3, 1710, according to which Berne granted to Queen Anne a loan of £150,000, repayable in ten years, at 6 per cent. interest, the purchase in 1745 and 1762 of shares in the Bank of England, the Anglo-Swiss Treaty of 1855, and the gradual growth of commercial relations between Switzerland and the various portions of the British Empire. The development of several Swiss industries is outlined, and the rôle played by Great Britain in their inception, particularly with regard to the supply of machinery. The conditions prevailing during the war are also dealt with, as well as the more recent legislative measures, such as increased Customs duties, the Safeguarding of Industries Act, Dyestuffs Import Regulation Act. Numerous statistical tables Import Regulation Act. Numerous statistical tables enhance the value of this interesting work, which is based on the study of a wealth of official documents, in addition to other publications. The importance of transactions between Great Britain and Switzerland may be gauged from the fact that in 1920 Great Britain exported goods to the value of 465,734,000 Swiss francs, while Swiss exports to this country aggregated 645,521,000 Swiss francs; the values for 1913 being 112,665,000 and 236,165,000 Swiss francs respectively. That the growth in the exchange of goods is not attributable to increased prices is apparent from the fact that in spite of a decline in imports the quantities imported into Switzerland from Great Britain have increased by 34 per cent., while in 1920 Great Britain figures as Switzerland's best customer, taking no less than 30.7 per cent. of her total exports.

#### Marriages

Gray—Andrew.—Recently, Albert Gray, chemist and druggist, eldest son of Mr. Albert Gray, Albion Street, Chadderton, to Henrietta (Hetty), only daughter of Mr. Alfred Andrew, Garforth Street.

Doig—Reid.—At Mathers' Hotel, Dundee, on August 9, by the Rev. W. S. Waters Reid, assisted by the Rev. Professor Morton, Glasgow, and the Rev. F. D. Langlands, B.D. (cousin of the bride), John Lyall Doig, chemist and druggist, to Agnes Langlands, second daughter of the late Mr. William Reid, 5 Kilnburn Place, Newport-on-Tay.

#### Deaths

BUTTERWORTH.—At Arnside, Westmorland, on August 12, while on holiday, Mary Ann, wife of Mr. J. T. Butterworth, chemist and druggist, 155, Shrewsbury Street, Old Trafford, Manchester. Interred at Arnside Cemetery on August 15.

HUTCHINS.—On August 2, Sarah Louise, wife of Mr. E. C. Hutchins, pharmacist, 36 Lower Kennington Lane, London, S.E. 11, aged sixty-three.

JACOBS.—On August 12, suddenly, Mr. Mark Jacobs, senior ledger clerk at the chief offices of Burroughs Wellcome & Co., Snow Hill, London, E.C. 1, aged fifty-seven. Mr. Jacobs had been in the employ of the firm for thirty-four years.

Pocock.—On July 2, Mr. William Frederick Henry Pocock, Ph.C., formerly of J. T. Pocock & Co., wholesale chemists, Cape Town, aged sixty-five. Mr. Pocock, who was a native of Cape Colony, came over to England when a young man, and after studying under the late Dr. John Muter, passed the Major examination in 1879. Returning to Cape Town, he became a partner in the firm of J. T. Pocock & Co., and found time to take a prominent part in local municipal affairs. It was largely owing to his activity that pharmacy received satisfactory recognition in the Medical and Pharmacy Act passed by the Cape Legislature in 1891. He was a Government nominee on the first Cape Colony Pharmacy Board, and his colleagues made him their President—an office which he held for several years. A portrait of Mr. Pocock appeared in The Chemist and Druggist, II., 1895, p. 825.

Ward.—On August 6, Mr. William John Ward, chemist and druggist, 1, High Street, St. Peter's, Broadstairs, aged fifty-one. Mr. Ward, who qualified in 1901, succeeded to the business of Mr. J. Kirkman.

Woodhouse, Chemist and druggist. Mr. Woodhouse's connection with Ludlow

connection with Ludlow began in 1868, when he was apprenticed there to Mr. George Cocking, 45 Bull Ring. On the expiration of his apprenticeship Mr. Woodhouse went as junior assistant to J.—& H. A. Averill, Market Square, Stafford. He passed the Qualifying examination in 1875, after studying in London with Mr. Braithwaite, and then returned to Ludlow as assistant to Mr. W. Arkinstall. Experience with the late Mr. J. Spilsbury, Ph.C., Leamington, followed, and in 1878 Mr. Woodhouse purchased the business of his appren-



Mr. G. WOODHOUSE

tice-master in Ludlow. Here he remained till recently, being joined after a time by his eldest son, Mr. W. M. Woodhouse, chemist and druggist, by whom the business is now carried on under the style of Woodhouse & Son. Mr. George Woodhouse was elected Mayor of Ludlow in 1907, 1909 and 1910; he also did a good deal of useful and unostentatious work as a churchwarden and a guardian of the poor.

Wardle.—At Oldham, on August 7, Miss Elsie Wardle, chemist and druggist, pharmacist to the Royal Infirmary. Miss Wardle qualified in 1905, and was subsequently for some time at the Queen's Hospital for Children in East London, first as assistant and then as chief pharmacist. She eventually returned to Oldham, her native town, to take up a similar position. Miss Wardle was well known as one of the leaders of organised women pharmacists, having held office as secretary, Vice-President and President in the Liverpool and Manchester district, and, later, as President of the National Association of

Women Pharmacists. Her early death leaves a blank not easily filled.

WILLIAMSON.—At Oresborough, Haverfordwest, recently, Mr. William Henry Williamson, chemist and druggist, the beloved husband of Emily Woodward Williamson, Ashingdon, Wilmslow (late of Cheetham and 54 Dantzic Street, Manchester). Interred at Slebech Church on August 11.

Wilmor.—At St. James's Terrace, Lincoln, on August 5, Mr. Benjamin Wilmot, chemist and druggist, aged eighty-eight. Mr. Wilmot, who was a native of Harby, started in business at Banbury. Afterwards he was at Leeds for a time, and in the 'seventies succeeded Mr. F. J. Clarke in a pharmacy at Newland, Lincoln.

#### Personalities

Mr. Frank J. Murphy (arthur H. Cox & Co., Ltd.) is removing to The Cottage, Matlock Manor, Herne Hill, London, S.E. 24.

SIR JESSE BOOT, Bt., has offered to contribute  $\pounds 50,000$  towards the cost of erecting houses in Jersey, and has purchased a plot of land for the purpose.

Mr. John Chapman Parry, younger son of Mr. Ernest J. Parry, B.Sc., has been offered and has accepted a commission in the 4th Battalion (Territorial) of the Essex Regiment.

MR E. H. RAWLINGS (Evans Sons Lescher & Webb. Ltd.), who has been seriously ill, has made an excellent recovery, and will shortly resume his duties. He greatly appreciates the many kind inquiries received.

Mr. W. J. Aires, late Eastern Counties representative of S. Maw, Son & Sons, Ltd., has joined the representative staff of John Bell & Croyden, Ltd. (incorporating Arnold & Sons), Giltspur Street, London, E.C. 1.

Mr. Fred Hamer has been appointed London manager to William Edge & Sons, Ltd., dye manufacturers, Bolton, in succession to Mr. A. Allen Jones, and he has taken up his duties. Mr. Hamer has been with Messrs. Edge for twelve years.

Mr. Charles W. Gosling, Ph.C., vice-principal of the London College of Pharmacy, 361 Clapham Road, S.W. 9, has been appointed a member of the advisory committee of the Forest Products Research Board of the Department of Scientific and Industrial Research.

Mr. John L. Carter, for many years a partner in the firm of Carter & Sons, manufacturing chemists, Attercliffe Road, Shef-

Attercliffe Road, Sherfield, is achieving distinction as a novelist, several of his books having been published by John Long, Ltd. Mr. Carter's latest novel, with the happy title, "Come Day, Go Day," is receiving a very favourable reception at the hands of the critics, and we have no doubt that C. & D. readers will like to see his portrait. The "Sheffield Independent" remarks that "Come Day, Go Day" is "one of those happy books which make one feel that it is a jolly old world after all."



MR. J. L. CARTER

The following representatives of Stone-Ballantine Ltd., 13 Well Court, London, E.C. 4, agents for Sal Hepatica, Ipana tooth-paste, and other American proprietaries, have been appointed for the Liverpool and South Coast districts respectively: Mr. J. A. Sargent, 3 Hemans Street, Princes Park, Liverpool, and Mr. F. W. Warneford, 5 Halsford Croft, East Grinstead.

#### Trade Notes

Mona asbestos socks.—The Monahan Asbestos Co., 33 Robert Street, Liverpool, give particulars of the agents for Mona asbestos socks in their advertisement in this issue.

Batteries.—Mr. A. Wolff, 9.15 Whitecross Street, London, E.C. 1, offers in this issue a line of pocket-lamp batteries with which a guarantee for six months (provided the seal is not broken) is given.

Special offer of bottles.—Particulars will be found, in the advertisement of Mr. Thomas Swales, 20/24 Butts Court, Leeds, on another page of this issue, of a special offer of several kinds of bottles of "good Yorkshire

PILL BOXES and other containers made of wood, as well as bungs, brush-handles, and similar articles, are obtainable from the London agents in this country of Oström & Fischer Aktiebolag, 18 Adam Street, W.C. 2.

Peacehaven.—Information about Peacehaven, "The Garden City by the Sussex Sea," will be forwarded by the South Coast Land and Resort Co., Ltd. (Dept. C. & D.), 4 Vernon Place, Landon, W.C. 1, to anyone interested in this estate.

PILFER PROOF CONTAINERS.—Vickers, Ltd., Erith Works, Kent, announce on another page that they are manufacturing plant for making all kinds of pilfer-proof shipping containers. These containers are stated to possess several advantages over wooden cases.

A RELIABILITY TEST.—Particulars of a trial run by a 10-cwt. delivery van, manufactured by Willys Overland Crossley, Ltd., London and Manchester, undertaken to demonstrate its general reliability, fuel, oil and water consumption, will be found on another page. The van is constructed to a scheduled description, and the price is moderate.

"GRIPS" FIRST AID PASTILLES.—As will be seen from an advertisement in this issue, J. W. Lightbown & Co., proprietors of "Grips" First Aid pastilles (agents, Thos. Christy & Co., 4-12 Old Swan Lane, London, E.C. 4), in connection with which two window-display competitions are being arranged, are exhibiting at Olympia from September 6 to September 26.

THERMOS COMPETITION.—Thermos, Ltd., refer in their advertisement in this issue to a competition which they have just launched, with first prize of £20, for descriptions of experiences with genuine Thermos flasks. The competition remains open till October 31, and cash awards of £2 each are made to the retailers who supply the first three prize-winners with their flasks.

POTTER'S PUFFER POWDER.—Potter & Clarke, Ltd., 60, 62 and 64 Artillery Lane, London, E. 1, are putting up in two sizes a three-cornered cardboard receptacle containing insect-powder, the aromatic odour of which gives promise of high potency. On withdrawing the stopper (which consists of a nail) the packet can be used as bellows Nothing could well be simpler, and the general appearance of the carton is smart and distinctive.

ORBITE.—Elsewhere in this issue will be found particulars of Orbite, a tree-banding material manufactured by Kay Brothers, Ltd., manufacturing chemists, St. Petersgate Mills, Stockport. Researches recently resuggest that ants, which have long been known to feed upon the juices secreted by aphides, carry the aphis grubs to the leafy part of orchard trees; if so, by trapping the ants on bands of sticky material placed round the tree stems the aphis pest can be controlled.

Newbery veterans.—In compressing the report, in our Newbery veterans.—In compressing the report, in our last week's issue, of the visit of veterans of the staff of Francis Newbery & Sons, Ltd., Charterhouse Square, London, E.C. 1. to the residence of Mr. and Mrs. Francis R. Newbery at South Croydon, an obvious slip in chronology occurred. It should have been stated that the combined periods in the company's service, so for a the six present representations. far as the six present were concerned, amounts to 289 years; and the additional time to be credited to the four absentees brings the total to 450 years.

#### Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1922, p. 277.

(From the "Trade-marks Journal," July 5, 1922.)

(From the "Trade-marks Journat, July 9, 1822.)

"TALSUB" and "AUTOBLE"; for all goods (1, 2, 3 and 4).

"DISOLIK"; for all goods (1 and 4). "KLAGNUM"; for all goods (2, 3, 4 and 47). "MULSOL"; for all goods (4). By K. L. Allan & Co., Ltd., Rainford, Lancs, 423,484/485/436/487/488/489/490/491; 423,492/495; 423,431 482/485/090. (Associated.) 423,226.

"VITEX"; for poultry medicine (2). By A. H. Brain, Brooklyn, High Street, Hill Top, West Bromwich. 420.761. (Associated.)

Brooklyn, High Street, Hill Top, West Bromwich. 420,761. (Associated.)

"Jacem"; for chemicals (2) and for medicinal chemicals (3). By R. Johnson, Clapham & Morris, Ltd., 24 Lever Street, Manchester. 421,113/114. (Associated.)

"Gyrol"; for chemicals (2). By E. Maurice Fils & T. Pontier, 30 Rue Jeanne Maillotte, La Madeleine-lev-Lille, Nord, France. 422,382.

"Spider"; for fly-papers and fly-gum (2). By McLeod (Hull), Ltd., Mason Street, Kingston-upon-Hull, 425,310.

"Incitamin," en device with words "Serpens," encircled by two serpents; for pharmaceutical preparations (3). By Aktieselskabet Serpens, Halmtorvet 1, Copenhagen, Denmark. 410,823. Denmark. 410,823.

"Veto"; for goods (3). By Pharmacia Gyogyszer Vegyeszeti Gyar, Dembinszky Street 4, Budapest VII., Hungary. 420,872.

Hungary. 420,872.

"Burgers Irish Moss Cough Syrup." etc., on label device; for cough syrup (3). By W. J. Tristram, 64 Whitechapel, Liverpool. 416,359.

"MarvLex"; for a curative plaster (3). By L. Robinson and J. W. Thorpe, 244, Langside Road, Glasgow.

423,565.
"ANAUSINE"; for medicinal chemicals (3). By W. J. Patey, 76 New Bond Street, London, W. 1. 424,717.
"BOREKO"; for medicinal chemicals (3). By G. W. G. Booker, 41 Talgarth Road, West Kensington, London, W. 14. 425,021.
"LITHURIX"; for medicinal chemicals (3). By M. F. Pratt, 7 Wybert Street, Munster Square, London, N.W. 1. 425,600

425,600.

"AQUINOID"; for medicinal chemicals (3). By H. Mortimer,
78 Meadow Road, Leeds. 425,954.
"Fenzic"; for medicinal chemicals (3). By The Rubwel Co., Ltd., 34 Seedley Road, Pendleton, Manchester. 426,303.

"BELLEJOLIE"; for perfumery, etc. (48). By Société Anonyme Bellon et Cie., 43 Boulevard de Strasbourg, Paris. 423,051.

#### Information Department INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

Algonicum balm Astonin Banting's biscuits M/148. ball British-American nozzle enema D/89. dress) E/109.

Bisulphide (or 'phate)
of sodium soap (for
T.N.T. poisoning)
Diosal

A/158. A/158. Dr. Cau Lustriale Caul's Poudre B/98. Iodormone

D/168. Kerr's dental wax M/158. Kiggia liquid (for the face) P/168. Kiomia Musculosine
"Pierrepoint" toothbrushes S/128. K/128. A/48.

Prof. Newton Harvey's "Luciferin" M/148. Recresol T/128. "Royal Saloon" shav-ing-brush S/158. Tolysin tablets

#### INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4.

Albulactin, L/128
Allan's anti-fat, C/148
Alza tonic tablets, M/168
Atoplan, C/148
"Kanok" safety razor blades, B/168

B/168
"Beryllium Oxide," W/168
"Butyu," R/158
Cantassium, R/168
Chocolax, B/148
Crutchlow's massage brush,
B/148
Crutchlow's T/100 Cystopurin, L/128

Elsenham lavender S/158 Ethyl chloride, K/168 Ethyl chloride, K/168
Faivres cachets, D/128
B/178. Field's Jade Cape
Germolene, S/158
Ionone, A/158
Jenner's lozenges, S/158
Lactillin capsules, A/159
Pepper's taraxacum, S/152
"Permutit" filter, L/168
Protox, S/148
Tongaline, B/168

#### bservations and Reflections

By Xrayser II.

#### our Admirable Article

on the examinations, on page 237 f your Educational Number, contains one sentence thich is worth everything I have heard on the subject rom our official educationists. What matters is not o much the knowledge temporarily acquired, but thether "the study has inculcated the right method and aught the pupil to observe." The memory, after all, is nly a storehouse; it has no operative force; it merely provides material for the mind to work upon, and it is with the mind that education should concern itself. This is the justification of the "intelligence tests" which have been the subject recently of so much unintelligent ridicule in the newspapers, and the condemnation of ramming and everything that tends to it. It also gives force to your contention that our curriculum should be brought within reasonable dimensions." The multiplication of subjects inevitably tends to cramming, and the mind becomes so congested with matter that it cannot work.

#### even for the Purpose

of passing an examination cramming s a mistake if the examiner knows his business; it is because it has less chance of success in an oral than in a written examination that I should be sorry to have the former much curtailed. The failure of our examinations, in so far as they have failed as tests of practical efficiency, is, however, mainly due to the nature of the questions set. There is something to be said for every rubject, taken separately and in proportion to its respective importance; but there are too many of them, and their relative importance is not duly taken into account. The examinations are too academic in character; the old fallacy that knowledge is power prevails, and the candidate is judged rather by what he has acquired than by what his acquisitions have made of him. This is a vice which no curriculum can correct, for it lies in the theory of the examination, not in the candidates, and is a matter of method, not of subject.

#### The Introductory Remarks

under the head of "Pharmacy" in your Educational Information are distinctly If the changes in the Qualifying examination there foreshadowed actually take place, much will have been done towards removing what might without much ex-aggeration be called the scandal attaching thereto. I have noticed with concern the gradual increase of failures in pharmacy, which I had charitably set down to war and post-war conditions; but when one comes to think, the fact is evident enough that in itself pharmacy is and is likely to continue an increasingly difficult subject. It requires a good deal of practice to make a man proficient in the merely mechanical operations now necessary in every pharmacy, though the necessity is very unevenly distributed. Apprentices, I understand, are still more easily obtained in country districts than in our larger towns, and it is in the country pharmacy that these operations are least often required. It becomes a matter of conscience to decide whether a man is justified in accepting apprentices when he has not the opportunity, and perhaps not the ability, to instruct and train them in these very necessary operations; and I would suggest that some scheme for supplementing what individuals can do in this respect should be set on foot by local associa-tions, with the assistance, if required, of the parent Society.

#### The Charter,

I fancy, would prevent the Pharmaceutical Society from embarking upon such a scheme as "Mac" suggests (C. & D., August 12, p. 270), even if it were desirable. It would transform the Society into a trading concern, and would tend more strongly to "disintegration" than any glut of qualified men, for which the Society is in no way responsible. Nor is it under any obligation to provide for them, anxious as it may be to do

so to the extent of its power. But of all the suggestions for helping its members that have been put forward your correspondent's is the last that I should think likely to be adopted. There are, as I said last week, more pharmacists in business now than can live by pharmacy, and to increase the number of those who merely make it an adjunct to other business would hardly be consonant with the Society's object, the advancement of pharmacy to the rank of a profession.

#### My Experience

with regard to goods sent without invoice is that such a proceeding is an intolerable nuisance and may be prevented if with every order a notice is sent that goods will not be accepted unless preceded, or, if delivered directly by the house itself, accompanied by an invoice. I am often surprised at the way in which some of my friends allow themselves to be thus inconvenienced. Not long since I ordered through a friend from a house with which I have no account a certain appliance, the price of which neither of us knew. It came (none too quickly), but without an invoice, and had to be passed on to the customer without payment. My friend seemed to regard this as quite the normal way of doing business, but it certainly was not so when I was on the road. If, as rarely happened, my firm served a customer so, I heard of it pretty sharply, and was myself correspondingly annoyed. In this, as in some other ways, wholesale houses got into slovenly ways during the war.

#### "Free Gifts"

(so-called) are not only bad business, as I have said before, but, in my opinion, of dubious honesty. The tea dealer who with every pound of 3s. tea "gave away" another pound of the same tea was really selling 2lb. of eighteenpenny tea, and it would have been more honest to say so: The customer was not defrauded, perhaps, but he was deceived, and his discovery of the fact would probably leave him sore. This revival of the old discredited bonus system which is being practised even by some good firms is unworthy of them, and I am glad whenever I see an exposure of it. Mr. Mills last week hit the nail exactly on the head,

#### Smuggling

in "dangerous" drugs will doubtlessly go on to some extent, whatever efforts are made to suppress it, but that is no reason why it should not be suppressed as far as possible; and since it is easier to dam a stream near its source than when it has spread into divers channels, it is to smuggling that attention should first be given. If there were no thieves there would be no receivers; no smugglers means no illicit dealers, and for every smuggler there are many such dealers. Reduce the number of the former and you reduce the whole evil in proportion. The mistake Governments made in dealing with this traffic was that they began at the wrong end, and we ought to be glad that they are now adopting a more intelligent method.

#### The Guildford Doctor

of last century of whom you spoke some weeks since as the last of the alchemists does not appear to have been the last after all. Mr. W. B. Yeats, the poet, in the reminiscences he has been publishing in the "London Mercury," tells of an Oxfordshire clergyman to whom he was once introduced by the author of the "Kabbale Unveiled," who not only had an alchemical laboratory hidden in his cellar away from his bishop's observation, but professed to have made the elixir of life and to have been told by a French alchemist, whom Mr. Yeats conjectures to have been Eliphaz Levi, that it possessed the right smell and colour. When tried, however, its first effects were not satisfactory. It caused the nails and hair to fall off, and the reverend discoverer, fearing some error had been made, set it aside for further examination. When the time for this came it had all dried up, and, I gather, was never replaced. Mr. Yeats evidently accepts this story, but being neither a clergyman nor a poet, I am a little sceptical as to the quality of the elixir.

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With Only Tone Writing The End of

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#### COLLECTS LIVE ACCOUNTS

THE McCaskey Register Co., WATFORD

#### S.V.R.—Absolute Alcohol

CHEMISTS' WINES. Jas. Burrough Ltd. D.1 Cale Distillery, Hutton Rd.

n announcement of particular

interest to you appears this issue on page 8.

#### PATENTS AND TRADE MARKS.

There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting efficient agents who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.

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Wholesale Druggists, SOUTHAMPTON.

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#### The Activity in Peppermint Oils

ONE of the striking features of the present month, which is usually quiet in the drug and chemical markets, has been the exceptionally strong position of American and Japanese peppermint oils. Last week, when we closed for press, the highest current spot quotation for American natural peppermint oil was 11s. per lb., against 16s. to-day. For several months past the market has gradually hardened, from its lowest point, 8s. 9d. per lb., which was the spot quotation in the month of March. In August, however, the promise of new crop oil generally induces buyers to hold their hands, for new stocks, as a rule, should mean lower prices at least

at the beginning of the season. It has been notably difficult to btain authoritative reports regarding the prospects of the erop which is now being distilled. We published some weeks (C. & D., June 10, p.64) ago a statement which emanated from a well-known importer to the effect that the erop was likely to be short. More recently we understand that the yield has been estimated at rather less than half a normal crop. If this be so then the world consumers are faced with the prospect of only 150,000 lb. of oil (instead of an average erop of 300,000 lb.). The short crop is ascribed to excessive rains and lack of sun, and one distiller has reported a yield of only 8 lb. to 10 lb. per acre, against a normal of about 40 lb. The distillation period is actually a month late, for after the disappointing results attending the first cutting of herbs, at the usual period, the distillation was postponed in the hope that better results would follow later. These, it appears, have not materialised. It is noteworthy that in a certain section of the American trade press a bumper crop of at least 400,000 lb. was predicted last May. While it may be too soon in the distilling season to eredit that the total yield is likely to reach only half the normal amount it is scarcely likely that speculators would operate to the extent indicated by the present price if the new crop prospects of the oil were so roseate as the reports referred to make out. We already drew attention in a previous article (C. & D., March 4, p. 59) to the increasing demand for American peppermint oil and it will be found, no doubt, that it is this fact, coupled with the small yield, which has encouraged speculation. At the commencement of each season, the reports of poor crops have appeared in London with such regularity, only to be falsified later, that the market was almost unmoved by the gradual hardening of prices. But, after inquiries for re-shipment to America had been made, interested parties were immediately on the qui vive, for it was suggestive that something unusual must have happened to the crops to cause America to want to buy back her oil. Practically all the spot business in London has been done on a speculative basis, identical parcels changing hands over and over again, starting from 9s. 6d. and rising to 12s. In New York the market is extremely active and the position is unstable. Unfortunately there is no official report of the deliveries from London stock, but it is stated that spot supplies are extremely small. We find, however, that the arrivals in this country from America since January 1 to date have reached a total of 900 cases (upwards of 50,000 lb.). As this would represent about one-third of the estimated crop for 1922-23 for world consumption the favourable outlook, from a speculative point of view, is readily apparent. The sole elaim to popularity that the American oil has over its various rivals is its cheapness. Early this year \$2.00 was suggested as a reasonable basic price for the oil. Although higher values are probably now justified, extreme prices are almost certain to result in curtailed consumption for it is rather late in the day to expect consumers to pay for the tunc that speculators call. With regard to Japanese dementholised mint oil this has been a disappointing article for several months. Spot stocks have gradually been diminished, and as is usually the case the price advanced immediatelyany serious business is transacted. During the past fortnight, about 600 cases were turned over, including a single order for 200 cases at 5s, to 5s, 3d,; last week when we closed for press 5s. 4½d. per lb. was the price, which was still advancing. The c.i.f. prices followed suit and all second hands have been cleared at from 5s. 1d. to 5s. 6d. c.i.f. Altogether it is reported that probably a thousand cases on the spot and c.i.f. have changed hands. As the arrivals officially reported during the year from January 1 to date have barely reached 600 cases, it will readily be observed that the spot position is likely to remain strong, although the c.i.f. price is probably already on the turn.

#### British Trade Improves

A SUBSTANTIAL increase in the value of exports from the United Kingdom is one of the features of the Board of Trade Returns for July, their value being £60,418,600 against £52,146,000 in June last, or a gain of £8,292,700, and compared with July of last year the exports are £17,246,200 better. Imports for the month are, however, lower than those of both May and June of this year, amounting to £81,783,500 against £84,298,000 during June and £80,501,800 in July, 1921. As showing the decline in values, we note that in July, 1920, the imports amounted to the gigantic total of £163,127,000, the exports being thirty millions less. With regard to imports last month, it is satisfactory to note that we purchased less food, drink and tobacco by £3,018,000, due mostly to a decline in the cost of wheat and flour. Raw materials and articles mainly unmanufactured advanced by £4,005,000 to £24,237,000, while of manufactured goods we imported £574,100 more at £18,578,700. Included in this category are chemicals, drugs, dyes and colours amounting to £831,976, or £90,710 more. The quantities of most items are decidedly larger than those of a year ago, particularly as regards unenumerated potassium compounds, sodium nitrate, tartaric acid (5,788 cwt. against 2,912 cwt.), ground barytes (40,218 cwt. against 20,490 ewt.), borax (3,299 cwt. against 692 cwt.), quinine and quinine salts (26,341 oz. against 20,551 oz.), and bleaching materials (2,117 cwt, against 972 cwt.). Manufactured oils, fats and resins show a decline of £685,800 to £3,676,000, fuel oils accounting for the bulk of the decrease; turpentine was imported to the extent of 40,083 cwt., or 10,000 cwt. more than at this time last year. The substantial gain in exports already noted, applies, as usual, chiefly to manufactured goods, which are up by £11,750,300, followed by an increase of £5,266,300 in raw materials and one of £104,000 in food and the like. The volume of business done in chemicals, drugs, dyes and colours continues to expand, compared with July last year, as the following figures show :-

	1920	1921	1922
	£	£	£
July	 4,461,273	1,069,307	1,444,643

It will be seen that the July figures were £375,336 better than last year, but compared with the boom period of July, 1920, the decline is £3,016,630. Glancing at the various scheduled items, it is quite apparent that there has been quite a distinct gain in quantities in many of the industrial chemicals, the following of which are among the more prominent:—

Exports	1921 July	1922 July
Bleaching materials Cwt.	4,660	26,811
Coal tar products £	66,233	102,291
Potash compounds Cwt.	2,547	5,108
Sodium compounds Cwt.	123,110	613,751
Copper sulphate Tons	558	1,316
Ammon. sulphate Tons	6,510	7,387
Painters' colours Cwt.	69,693	119,164
Chemicals, "all other sorts" £	198,291	249,328
Drugs and medicines £	163,274	183,840

Glycerin is one of the few decreases (5,505 cwt. against 8,080 cwt.), and there was also a slight decrease in tartaric acid (278 cwt. against 299 cwt.). It is quite evident from the above figures that both the drug and chemical trades are showing signs of a healthy recovery, as it is quite recognised that values are much more stabilised.

#### The Fall in Shellac

WITHIN the last few weeks the fall in the value of shellae has become accentuated. As the landings recently have been eomparatively small, and as good deliveries have resulted in another reduction in the warehouse stocks, this decline, which is thus more striking, has tended to encourage depressing forward operations, chiefly based on the successive reductions in the Calcutta rupee rates. The slump to about 150 rupees has been the main factor in the depressed aspect of the market, so that the improvement in the statistical position in London has been practically ignored. The Calcutta collapse may be the outcome of liquidation and lowering tactics by dealers, and prices here may sag further, although it is hardly likely that forward blank sales will be made at much under actual e.i.f. costs, which, for near shipment have been just lately at around 305s, per cwt. for standard TN Orange quality. Bear operators have had a fair innings within the last month or two, but it must be remembered that reserve stocks are low, and the Calcutta market can quickly recover, as was seen only a few months ago, when the price, which had dropped to about 175 rupces, bounded up again in a comparatively short space of time to 205 rupees. The London market has, of late, been dull, but although deliveries since June fell considerably from the high monthly average for the first half of the year, the July outgoings at 3,836 cases were still well over 300 cases in excess of the monthly average for the first seven months of 1921. In the present indifferent state of the trade, of eourse, statistical indications for the current month are not in favour of holders, as the landings should be considerably larger than for the previous month, but market possibilities largely depend on developments at the primary source, which are problematical and, to some extent, subject to the rate of exchange. Meantime, the forward Calcutta quotation eontinues at a notable premium against prompt delivery, which is suggestive of the feeling as to the future of the article in spite of the present lack of support. This slackness may be a reflex of the more restricted demand on American account. For some time the American takings from Calcutta have been very heavy, and the market is, doubtless, well supplied at present. Substantial quantities were landed in New York in July, and there are further big arrivals due this month. While the statistical position in London has shown little deterioration despite the much increased landings during the year, as well as the fact that the stocks at the end of last month at 10,591 cases were about the same as a year previous, the recent fall has brought prices down to a point where the market may show some resistance. The spot value of T.N. having dropped to about 330s., with forward positions ranging down to 295s., this denotes a depreciation varying from 65s. to 85s. per cwt. from the highest point reached this year. With regard to world consumption, the fact has to be noted that, in spite of the adverse rates of exchange, the chief Continental consuming markets have increased their takings materially since last year, so, assuming that the American demand is maintained, it is difficult to see how the London market will experience any permanent heavy accumulation of stocks. Production may possibly increase, but so far it seems only about sufficient to keep pace with the much enlarged consumption. So far as the handling of supplies by this country are concerned, the figures tabulated below speak for themselves:-

			London	Monthly
			Deliveries	Average
1912			45,829 cases	 3,819 cases
1913	4.0		51,061 ,,	 4,254 ,,
1920			50,271 ,,	 4,189 ,,
1921			53,409 ,,	 4,451 ,,
1922 (	7 mont	hs)	35,525 . ,,	 5,075 ,,

The comparatively high monthly average for the last seven months is noteworthy, particularly so against the monthly average for the corresponding period of last year, which was only 3,529 cases against total deliveries, covering that period,

of 24,706 cases. Consumers have long since become accustomed to a high level of prices, as compared with pre-war times, and it is generally recognised that, apart from the temporary burst of speculation, the aspect of the market is chiefly determined by supply and demand. It is quite realised that India has a monopoly in the commodity. There is very little, if anything at all, to be feared in the shape of substitutes for the essential purposes for which shellac is being requisitioned in the paint and varnish and other industries. Were this not the case, the Continental demand would hardly have improved as it has under most adverse economic condition. There are, of course, now, new uses for shellac, the electrical and gramophone industries calling for large quantities.

#### Imperial Preferential Tariffs

To carry out the preferential import tariffs with which most of the Colonies favour goods consigned from, and made in, the United Kingdom, the Imperial Customs Conference has drawn up a standardised 'Form of Invoice' and 'Combined Certificate of Value and Origin.' Specimens of these forms, together with explanatory memoranda for the guidance of exporters, are published in the 'Board of Trade Journal' of August 10. The instructions published cover over two pages, and exporters interested in Colonial trading should make themselves conversant with the rather complicated requirements laid down. The average difference in the preferential and ordinary import tariff is between 10 and 15 per cent. on most chemicals, and is therefore of material importance, although it is doubtful if it will prove sufficient to enable British goods to compete with the products of Germany, which, for instance, are now being rushed in large quantities into Australia since the embargo was withdrawn on August 1. The Australian 'dumoing' and 'depressed exchange' duties, which took the place of the late prohibition of German goods, is for the time being inoperative, and some time must elapse before they are put into force. To secure the preferential duty, goods imported into the Colonies and Dominions must be either:

(a) Goods wholly produced or manufactured in the United Kingdom; or

(b) Goods, if not wholly produced or manufactured in the United Kingdom, contain at least 25 per cent. of United Kingdom labour and material in the factory or works cost. It should be specially noted that the Invoice has to be in a special form which is different in many respects from those used by exporters. The instructions specify that the "combined certificate of origin and value" must be written or printed on the back of the exporter's invoice, but we understand that printed forms are being published both as regards the invoice and certificate, and that they will be accepted if attached to the exporter's documents. The following Dominions and Colonies have notified their adoption of the invoice and certificate: Australia, Cyprus, New Zealand, Newfoundland, Jamaica, Barbados, Dominica, Trinidad, Fiji, Grenada, British Guiana, St. Lucia, St. Vincent, and the Gold Coast. On the other hand, Canada, India and South Africa are important exceptions to these regulations. We understand from Australia House that Waterlow & Sons are publishing the standardised forms.

Egyptian Chemists' Association.—H.M. Commercial Agent for Egypt states that an Association of Egyptian Pharmaceutical Chemists has just been founded with the object of promoting the interests of pharmaceutical chemists generally; affording financial assistance to any of its members temporarily in need of same; to assist members in defending themselves legally in the event of their being sued in the Courts on a plea which affects the whole profession, and, generally, to develop a spirit of solidarity among the members of the profession. According to the Egyptian Directory there are about 180 pharmacies in Cairo and nearly 100 in Alexandria.—"Board of Trade Journal."

#### The New Pharmacopæia of Japan

(Concluded from C. & D., July 15, p. 83.)

VOLATILE OILS.—The physical constants of the volatile oils contained in the Japanese Pharmacopeia, together with the corresponding requirements established by the British Pharmacopeia, the latter included in parentheses, are set forth in the following table:—

Volatile oils not contained in the B.P. have also been included.

_	Sp. gr.	Optical rotation.
OLEUM AURANTII CORTICIS	0.85 -0.86	(a d25°) not less than
(Oil of orange peel) OLEUM AURANTII FLORUM (Oil of orange flowers)	0.86 -0.88	$(a d25^{\circ}) + 1.5^{\circ} to + 5^{\circ}.$
OLEUM BERGAMOTTAE (Bergamot oil)	0.880-0.886	$(a d25^{\circ}) + 8^{\circ} to + 24^{\circ}.$
OLEUM CAJEPUTI	0.91 -0.93	$(a d20^{\circ})$ not more than $-4^{\circ}$ .
(Oil of cajuput)	(0.919-0.930)	(a d20°) not more than
OLEUM CARYOPHYLLORUM (Oil of cloves)	1.044-1.070 (1.047-1.065)	$(a d20^{\circ})$ not more than $-1.25^{\circ}$ .
OLEUM CINNAMOMI (Cassia)	1.055-1.070	
(Oil of cinnamon, cassia	0.055.0.001	. 1000) 1 500 1 1 1 053
OLEUM CITRI (Oil of citron)	0.857-0.861 (0.857-0.860)	$(a d20^{\circ}) + 58^{\circ} to +65^{\circ},$ $(a d20^{\circ}) +58^{\circ} to +64^{\circ}.$
(Oil of lemon) OLEUM EUCALYPTI	0 90 -0.93	
(Oil of eucalyptus) OLEUM FORNICULI	(0.910-0.930) 0.965-0.980	. (α d20°) + 6°
(Oil of fennel) OLEUM LAVANDULAE	0,882-0,900	(α d20°) — 3° to — 10°
(Oil of lavender)	(0.883-0.900) 0.897-0.900	$(a d20^\circ) - 3^\circ to - 10^\circ$ $(a d25^\circ) - 20^\circ to - 33^\circ$
(Oil of peppermint) OLEUM ROSMARINI	(0.900-0.920) 0.895-0.920	$(a d20^{\circ}) - 20^{\circ} to - 35^{\circ}$ $(a d20^{\circ}) - 2^{\circ} to + 15^{\circ}$
(Oil of rosemary)	(0.895-0.920) 0.975-0.985	$(a d20^{\circ}) - 2^{\circ} to + 15^{\circ}$ $(a d20^{\circ}) - 15^{\circ} to - 20^{\circ}$
(Oil of sandalwood)	(0.973-0.985)	$(a d20^{\circ}) - 13^{\circ} to - 21^{\circ}$ $(a d20^{\circ}) - 13^{\circ} to - 21^{\circ}$
OLEUM SINAPIS AETHEREUM (Volatile oil of mustard)	1.017-1.025 (1.014-1.025)	= .
OLEUM TEREBINTHINAE RECTIFICATUM	0.86 -0.87	_
(Rectified oil of turpen- tine)	(0.860-0.870)	
OLEUM THYMI (Oil of thyme)		Not less than 0.9.

OLEUM CINNAMOMI (Cassia oil) is required to contain not less than 70 per cent, by volume of pure cinnamic aldehydo.

OLEUM EUCALYPTI (Oil of eucalyptus).

OLEUM EUCALYPTI (Oil of eucalyptus).

Test:—Dissolve 10 c.c. of the oil in 50 c.c. of petroleum ether, and add phosphoric acid (sp. gr. 1.709) drop by drop, at 0 deg., with stirring, until crystals separate and a yclowish or reddish colour develops. Rapidly filter the separated crystals through a dry filter paper, wash them with petroleum ether, and then dry them by pressing between filter papers. Transfer the crystals to a graduated cylinder, and add warm water: the separated oily layer should measure at least 5 c.c. at ordinary temperature.

OLEUM LAVANDULAE (Oil of lavender).—One part of oil of lavender should be almost clearly soluble in 3 volumes of diluted alcohol (68 per cent.) at 20 deg.

Test.—Add 10 c.c. of N/2 alcoholic potassium hydroxide volumetric solution to 1 gram of the oil, and heat the nixture on a water bath under a reflux condenser for 30 minutes. Dilute it with 100 c.c. of water, and titrate the residual alkali with N/2 hydrochloric acid volumetric solution; not more than 7 c.c. of the latter solution should be required for neutralisation (Indicator: methyl orange solution).

PANCREATINUM.—Pancreatin.—Add 0.28 gram of pancreatin and 1.5 gram of sodium bicarbonate to 100 c.c. of tepid water, contained in a flask, then add 400 c.c. of fresh milk, previously heated to 38 deg., and maintain the temperature of the mixture at this grade for 30 minutes; the milk should be bitter taste, but should be free from rancid odour.

Paraffinum Liquidum—Liquid paraffin.—Sp. gr. not tess than 0.875 (0.860 to 0.890). On heating 100 c.c. of liquid paraffin at 300 deg. for 30 minutes in a fractionating flask, no distillate should be obtained.

PASTILLI.—Pastils.—Pastils are the preparations, composed of the medicinal substances in fine powder and in case of necessity admixed with milk sugar, starch, or with other suitable vehicles, formed in suitable shape. Allow the

pastils to stand in water at about 37 deg., with occasional agitation; it should entirely collapse within 30 minutes.

Pastilli acidi acetylsalicylici.—Pastils of acetylsalicylic

 Acetylsalicylic acid
 ...
 ...
 50 part

 Starch
 ...
 ...
 ...
 ...
 7
 ,,

 Purified tale
 ...
 ...
 ...
 3
 ,,

 ... 50 parts.

Each pastil contains 0.5 gram of acetylsalicylic acid. Pastilli Chinini hydrochlorici.—Pastils of quinine hydrochloride.

Quinine hydrochloride Starch ... ... ... ... ... ... ... ... Milk sugar ... ... ... ... ... ... ... Purified talc ... ... ... ... ...

Each pastil contains 0.1 gram of quinine hydrochloride. Pastilli hydrargyri bichlorati.—Pastils of mercuric

> Mercuric chloride ... Potassium chloride

Mix them, colour the mixture with scarlet or fuchsin S, and make pastils, each containing 0.5 gram of mercuric chloride.

Pastilli oph et ipecacuanhae.—Pastils of opium and ipecacuanha.

 Opium
 ...
 1 part.

 Ipecacuanha root, in fine powder
 ...
 1 ,,

 Saffron, in fine powder
 ...
 1 ,,

 Milk sugar
 ...
 7 parts.

Each pastil contains 0.05 gram each of opium and ipecacuanha root.

PASTILLI STOMACHICI.—Stomachic pastils.

Ryutan root, in fine powder ... 2 ,,,

Each pastil contains 0.25 gram of sodium bicarbonate and 0.1 gram of ryutan root.

PHENOLPHTHALEINUM.—Phenolphthalein.—M. p., 255 deg. to 253 deg. (250 deg. to 253 deg.).

RADIX GENTIANAE SCABRAE.—Ryutan root.—Japanese gentian root.—The dried rhizome and roots of Gentiana scabra, Bge. root.—The dried rhizome and roots of Gentiura scabra, Bge. var. Buergeri matim.—The rhizome is dark greyish-brown, attaining about 10 c.m., in length and 5 m.m. in diameter. It is irregularly annulate, and bears on the top stem-bases occasionally stem-remnants, and on the lateral and lower sides numerous roots. The cross-section of the rhizome is dark brown, and shows in the wood fibro-vascular bundles, running irregularly. The roots are brownish-yellow, attaining about 20 c.m. in length and 3 m.m. in diameter, and longitudinally wrinkled. The cross-section of the root is brown, having a darker coloured wood, which shows radially arranged trachea at the periphery. It does not contain sclerenchymatous cells; the parenchymatous cells contain arranged trachea at the periphery. It does not contain sclerenchymatous cells; the parenchymatous cells contain many oxalate crystals, but no starch grains. It has a very bitter taste. It may be used as a substitute for radix gentianac.

gentianae.

RADIX POLYGALAE.—Onji.—The dried root of Polygala tenuifolia, Willd.—Onji is light greyish-brown, cylindrical, curved, sometimes branched at the apex, bearing the scars of the lateral roots, attaining 5 millimetres in diameter. The bark is deeply marked with transverse wrinkles, and more or less constricted to knots. Onji, which was deprived of wood, is in quill or curved piece. Under the microscope cross-sections of onji show well-developed, corky layer; the bark, consisting of parenchymatous cells, occasionally contaming oil globules and clustered or single crystals of ovalate, but no starch grains; medullary rays of the wood one to three cells in width, which are occasionally broken. It has no odour and an acrid taste. It should bear not more than a few remains of the stem.

RHIZOMA COPTIDIS.—Coptis rhizome.—The dried rhizome of the plants belonging to the genus Coptis, grown in Japan. RHIZOMA RHEI.—Rhubarb.—The dried rhizome of Rheum tanguticum, Tschirch, deprived of most of the bark and occasionally split into longitudinal pieces.

RHIZOMA VALERIANAE.—Kesso rhizome.—Japanese valerian root. The dried rhizome and roots of Valeriana officinalis, Lin. var. latifolia Miq.

SACCHARINUM.—Saccharin.—M. p., 219 deg. to 224 deg.

Saccharinum solubile.—Soluble saccharin.—Corresponds to the formula  $NaC_1H_4NO_3S+2H_2O$ . On incineration 0.5 gram of the salt should burn out, leaving 0.14 to 0.17 gram of solid residue.

SACCHARUM LACTIS.—Milk sugar.—Sprinkle one gram of milk sugar upon 5 c.c. of sulphuric acid, contained in a shallow dish, and set aside for one hour below 15 deg.; no more than a faint colour should develop. On incineration milk sugar should leave not more than 0.2 per cent. (0.25 per cent.) of solid residue.

-Alcohol, spirit. SPIRITUS.-

Spiritus.—Alcohot, spirit.

Tests:—Add 1 c.c. of silvor nitrate solution (1:20) to 10 c.c. of alcohol, dibute it with an equal volume of water, then add solution of ammonia—until the precipitate first produced is disselved, and allow the solution to stand in a dark place; it should neither be coloured nor be rendered turbid within five minutes. Evaporate 10 c.c. of alcohol with 6.2 c.c. of potassium hydroxide solution (15 per cent.) until it becomes about 1 c.c., and then supersaturate it with diluted sulphuric acid; no odour of fusel oil should be evolved. Carefully pour 5 c.c. of alcohol upon 5 c.c. of sulphuric acid in a test tube, so as to form two layers; no rose-red zone should appear at the line of contact, even on standing for a long time. A mixture of 10 c.c. of alcohol and 1 c.c. of potassium permanganate solution (1:12,00) should not turn yellow within twenty minutes. Distil-100 c.c. of alcohol slowly, at the rate of ten drops or less per minute, transfer 0.1 c.c. from 10 c.c. of the first distillate into a test tube, then add 5 c.c. of potassium permanganate solution (1:100) and 0.2 c.c. of sulphuric acid, and allow the mixture to stand for two to three minutes. Add 1 c.c. of oxalic acid solution (1:12), and, when the mixture has become yellow, shake with 1 c.c. of sulphuric acid to complete decoloration. Then add 5 c.c. of fuchsin-sulphurous acid solution (prepared by dissolving about 0.1 gram of powdered crystalised fuchsin and 0.7 gram of sodium bisulphite in 88 c.c. of water, and adding after one hour twenty-five drops of hydrochloric acid), gently shake the stoppered test tube, and set it aside; no colour, or if any, not more than a faint blue colour should develop within one hour. Shake the whole remainder of the first distillate with 250 c.c. of potassium permanganate solution (1:100) and 10 c.c. of sulphuric acid, allow the mixture to stand for two to three minutes, then distillate, add about 0.03 gram of phenylhydrazin hydrochloride, four drops of sodium nitroprusside solution (1:40) and 1 drops of sodium nitroprusside solution (1:40) and 1 c.c. of sodium hydroxide solution (1:10), and repeat the procedure until the mixture is no more coloured dark red. Then change the receiver, collect the distillates, mix with three grams of calcium carbonate, and distil once more. Add an grams of calcium carbonate, and distil once more. Add an excess of solution of ammonia to the distillate, and evaporate the mixture at a temperature not exceeding 80 deg. Take two drops of the concentrated liquid on an object glass, add onc drop of mercuric chloride solution (1:20), and inspect it under the microscope; no radiated crystals should be found. Alcohol should not be coloured by hydrogen sulphide solution, or by solution of ammonia. Evaporate 5 c.c. of alcohol; no weighable residue should be left.

STIBIO-KALIUM TARTARICUM.—Tartar emetic.—Required to centain not less than 99.7 per cent. (99 per cent.) of pure tartar emetic. Dissolve 0.2 gram each of the salt and tartaric acid in 100 c.c. of water and add two grams of sodium bicarbonate and one to two drops of starch solution; the mixture should require 12 c.c. of N/10 iodine volumetric sciution to produce a permanent blue colour.

Suppositoria GLYCERINI.—Suppositories of glycerin.

Suppositoria GLYCERINI.—Suppositories of glycerin.

 Glycerin
 ...
 ...
 ...
 60 parts.

 Sodium carbonate
 ...
 ...
 ...
 3
 ,,

 Stearic acid
 ...
 ...
 ...
 5
 ,,

Dissolve sodium carbonate in glycerin, add stearic acid, melt the mixture by carefully heating until carbon dioxido ceases to be evolved, and then make it into suppositories, each containing 3 grams of glycerin.

THEOBROMINO-NATRIUM SALICYLICUM.—Theobromine sodiosalicylate.

Dissolve theobromine, sodium salicylate and sodium hydroxide in distilled water, and evaporate the solution to dryness.

TODAIWO.—Todaiwo.—The dried rhizome of plants belonging to Rheum, growing in China.

Unguentum simplex.—Ointment.—Simple ointment.

Yellow wax ... ... ... 1 part. Sesame oil APPENDIX.

The appendix includes a list of reagents and volumetric solutions, arranged under their Latin titles; a table of common official medicines which should always be kept in a dispensary; a table of poisons to be kept in a place which can be shut up; a table of powerful medicines to be kept separated from others; a table indicating the maximum single and daily dose which may not be exceeded unless the prescriber places an exclamation mark (1) under the name of the medicine in the prescription, and other useful features. features.

#### Roumanian Petroleum

By C. A. Cosman-Nicoresti, B-es-Lettr. et Sc.

I was present at a lecture given by Professor Sabatier at King's College in 2912. He showed how, by using nickel as a catalytic agent, one could, by the action of hydrogen on acetylene, produce a mixture of hydrocarbons similar to American petroleum. By using acetylene and nickel a synthetic petroleum similar to the Russian could be obtained.

FORMATION OF PETROLEUM.

This brings us to an acute controversy about the origin of petroleum. Berthelot, Brunet, Moissan, Mendeleeff, and others maintain that petroleum is of inorganic origin. They advance various theories on its formation. Hofer, Hunt, and Engler maintain that it is of organic origin, and by various experiments try to prove that it can be produced from organic bodies. Before I give a short account of some of these theories I should like to point out that both parties seem to overlook the fact that if chemists do succeed in making synthetic petroleum, which eventually I am convinced they will, it would not settle the controversy, as synthetic petroleum from inorganic elements would not exclude the possibility of an organic origin of petroleum or vice versa. This question is more likely to be settled by geologists. Berthelot believed that alkali metals acted upon by carbonic acid in solution, under pressure at high temperature, conditions prevailing in the earth's interior, would produce petroleum. Moissan prepared liquid hydrocarbons by treating carbides with water. Mendeléeff, following Cleoz's experiments, by which he obtained liquid hydrocarbons by acting on carbide of manganese and iron with dilute hydrochloric acid, maintained that petroleum has been formed by the action of water on carbide of iron, which in his opinion exists in large quantities in the interior of the earth. Hofer, on the other hand, claims that hydrocarbons similar to petroleum are obtained by the decomposition of animal remains; that oil-bearing strata contain animal fossils; that petroleum contains nitrogen, which proves its organic origin. Engler, by submitting to distillation Menhaden oil, actually obtained a petroleum-like liquid containing pentanes, hexanes, heptanes, octanes, naphthalenes, and olefines. He also obtained a lighting oil which was indistinguishable from kerosene, which fact was confirmed by Sir Boverton Redwood, who stated that he had a sample of it submitted to him. Engler's theory is that fats are decomposed into fatty acids and glycerides; and, as suggested by Veith, the glycerin undergoing changes by pressure and heat is converted into acrolein, which by condensation forms benzene-that is, aromatic hydrocarbons; while the fatty acids, through loss of oxygen, change into hydrocarbons, as proved by Engler's experiments already mentioned.

#### Composition of Petroleum

According to Saint Claire Deville, who has analysed samples from all over the world, petroleum consists of: Carbon, from 79.5 to 87.7 per cent. Hydrogen, from 9.6 to 14.8 per cent.

Oxygen, from 0.9 to 5.6 per cent. Nitrogen, from 0.05 to 0.564 per cent. Sulphur, from 0.064 to 1.87 per cent.

The variation of quantities is explained by the fact hat petroleum being a mixture of various hydrocarbons the mixture varies according to the locality or even strata and depth from which it is obtained. The following is a list of the hydrocarbons identified in petroleums from various sources:

- I. The paraffin series—that is, open-chain saturated hydrocarbons, formula  $C_n\,H_{2^{\prime\prime}+2}$ , like propane, butane, etc.
- II. Ethylene series—unsaturated olefines, formula  $C_n \operatorname{Hn}_2$ , like propylene, etc.
  - III. Diolefines, formula  $C_nH_{2^{n-2}}$ .
- IV. Acetylenes, formula  $C_n H_{2n-2}$ , isomeric with diolefines; their carbon atoms being adjacent RC:CR; they have triple acetylene linkage.

V. Naphthalenes, closed chain hydrocarbons of the hexaethylene type, formula Cn H2n.

series - aromatic hydrocarbons, VI. Benzene formula H2n-2.

VII. Naphthalene hydrocarbons, double benzene ring, ormula  $C_nH_{2^{n}-8}$ .

VIII. Solid hydrocarbons—paraffin wax, etc,

#### REACTIONS OF PETROLEUM

I might mention here a few reactions of crude petroleum ith other bodies.

Sulphuric acid and sulphur dioxide dissolve most of the asturated hydrocarbons and remove sulphur from nsaturated etroleum.

Formalin in the presence of  $H_2SO_4$  gives formolites showing a amount of cyclic unsaturated hydrocarbons; an important eint in connection with lubricating oils.

Ozone gives solid ozonoids.

Anhydrous chromium oxychloride and aluminium chloride ve important reactions with petroleum.

Permanganate of potash in alkaline or acid solution will

idise the unsaturated hydrocarbons.

Bromine and iodine give absorption products.

Anhydrous aluminium and ferric chloride polymerise olefines.

#### ROUMANIAN WELLS.

The earliest mention of petroleum exploitation in toumania is about 1650 by Bandinus, describing the oil rells of Lucacesti, Moldova. Raicevich also speaks about imilar petroleum wells in 1759. The early exploitation as done mostly by hand wells dug to a depth of about wenty metres, and width of one metre twenty centimetres. Isually these wells are found in the compact rocks of Jsually these wells are found in the compact rocks of the Eocene age, which were easy to dig and allowed the il to trickle through slowly. No eruptive oil "gushers" ould be met with in these strata; consequently they were any favourable for employing hand-drilling. The heavy ery favourable for employing hand-drilling. The heavy il thus obtained was used mostly as cart- and boot-grease, lso for medicinal purposes. These wells sometimes lso for medicinal purposes. These wells sometimes eached a considerable depth; some were as deep as 265 netres. Their walls were cased with timber. Mechanical rilling only started about 1863. A French company eached at Tirgu-Oena a depth of about 100 metres, but he work had to be abandoned, as was the case with later rillings, owing to the water-bearing quicksands which tten cover Roumanian oil strata being very difficult to reak through. Still, hope was not given up, as oil ruptions often occurred during these drillings. It was a English company—the Thois Co.—which obtained the rst "gusher" at Recea, in 1883, at a depth of 130 metres, ielding about 10 000 kiles per deserved. ielding about 10,000 kilos. per day. Among the pioneer il-drilling companies in Roumania I may mention the erca Co., belonging to Mr. Johnston, chairman of ovril, Ltd. Successful drilling did not actually start ntil 1896, when new methods were applied and the prouction rose from a few hundred tons to almost two illions in 1913.

Considering that since the Great War Roumania has quired the oilfields of Bucovina and Transylvania, which almost virgin, it is not unlikely that the Roumanian lfields may in the near future become the most important nd richest oil area in Europe. The oil-bearing strata of

Roumania extend along the Carpathians, a tract roughly Geologically these deposits may be connected with the great subterranean depression starting from Vienna and Przemisł across Galicia and ending in the middle of Southern Romania in the valley of the Dimbovitza. As already mentioned, the oldest oilworks are in the Eocene deposits, though the general yield is small. The next in deposits, though the general yield is small. The next in importance concerning oil is the Oligocene, which up to 1907, especially in the Bustenari region, gave half the oil production of Roumania. It consists mostly of sandstone intermingled with salt deposits, and, being well covered by the Pliocene, it is rich in oil. The richest oil-hearing strata are actually those belonging to the inferior Pliocene (mostify) which consistent in the contraction of the contracti inferior Pliocene (meotic), which, consisting of sandstone and directly covering the salt strata, is in the most favourable position to receive the migrating oil from the petroleum forming saliferous deposits immediately below. The drilling systems used for sinking wells are:

I. The Pennsylvania system, with Manila cables instead

of drilling rods.

II. The Canadian, or the so-called dry system, with iron or wood boring rods instead of cable; single auger instead of spudding bit; this is the most popular drilling system in Roumania.

Roumania.

III. The hydraulic, or water-flush system, in which the drilling rods and tools are hollow, so as to allow an in- and out-going current of water for the cleaning of the well.

IV. Since 1904 the "Raky" system, an improved hydraulic system, for which, according to Sir Boverton Redwood, the following advantages are claimed: Great speed, 120 strokes per minute; the flushing water going to bottom of well without leaking; casy perception of progress of drilling; easy slipping out; and a great distance drilled without casing. This system has supersceded all the others.

#### PHYSICAL AND CHEMICAL CHARACTERS.

There are a few Roumanian chemists who have contributed to the chemistry of petroleum by their research. I may mention Istrati, Poni, and Saligny. But the chemist who has made the most exhaustive study of Roumanian petroleum is Mr. Edeleanu. He is better known abroad on account of his desulphurisation process, which consists in treating crude petroleum with liquid SO, at reduced temperature—10° C.—which proved very successful, and is widely used in France and in Germany.

According to Edeleanu, Roumanian crude oil is of an olive-brown to a dark-brown colour. Exceptionally light-red coloured oils have been found—namely, at Predeal and at Campeni—and this may be due to filtration through clay deposits. The chief characteristic of all Roumanian oils is their green fluorescence. Their specific

Roumanian oils is their green fluorescence. Their specific gravity varies from place to place, and even from time to time in the same well. The Bustenari oil is usually 0.850 to 0.857. Tega oil is 0.860. The lightest oil found in Roumania was 0.763, and the heaviest 0.944.

The odour is usually ethereal and pleasant, due to aromatic hydrocarbons; very few cases have been found with an alliaceous smell, due to sulphur. The flash-point is generally under 0°; in a few heavy oils it is about +20°. The viscosity taken with Engler's apparatus at 20° C. is between 1.1 and 1.6; but occasionally as high a viscosity as 18.9 has been met with. The boiling-point is between 25° and 60°. The sulphur percentage varies from 0.03 to 0.34. from 0.03 to 0.34.

The following are results obtained by treating samples from various regions with sulphuric acid :-

Region.	Sp. Gr. at 15°	$^{\%}_{absorbed}$ by $_{2}SO_{4}$	Not absorbed by H <sub>2</sub> SO <sub>4</sub>	Sp. Gr. after treatment with H <sub>2</sub> SO <sub>4</sub>
Berca Policiori Matita Campeni-Bacau Comanesti Bustenari Moinesti Sarata Monteoru .	0.801	21.0	79.0	0.775
	0.816	25.5	74.5	0.786
	0.807	31.5	68.5	0.775
	0.815	33.0	67.0	0.787
	0.843	40.0	60.0	0.799
	0.861	48.0	52.0	0.818
	0.858	50.0	50.0	0.809
	0.892	56.0	44.0	0.850

#### A Report on Cinchona

THE Imperial Institute Committee for India which in August, 1916, was invited by the Secretary of State for India to conduct an inquiry into the possibilities of further commercial usage in the United Kingdom of the principal raw materials, has now issued a report on cin-chona bark in which they state that they have considered fully the somewhat voluminous literature which exists, especially in Dutch, on all aspects of cinchona cultivation, production, trade and utilisation, and they have been materially assisted in their investigations by the information freely placed at their disposal by experts the information freely placed at their disposal by experts in cinchona cultivation, and by traders and manufacturers who are dealers in or users of the bark. "It is not easy," says the report, "to estimate the world's annual output of cinchona, as the producing countries do not as a rule publish figures for their output, but only figures for export of bark." After careful consideration of all for export of bark." After careful consideration of all the data available at the Imperial Institute the world's output is placed at 25,400,000 lb., comprising Java 23,000,000 lb., India 2,000,000 lb., and "other countries" 400,000 lb. The Java figures are for the period 1911-13, India for 1912-13 to 1915-16 and other countries for 1910. for 1910. The report lays emphasis on the fact that Java holds a virtual monopoly in cinchona, and draws. attention to the memorandum on the Supply of Essential. Drugs by the National Health Insurance Commission to the Committee on Commercial and Industrial Policy After the War, which stated that "it would seem well worth while to take into careful consideration the possibility of developing the Indian cinchona and quinine production as to make the Empire independent of outside sources of supply of cinchona and quinine." The report then gives some facts concerning the working of the contracts between the cinchona plantations and quinine makers, which have already appeared in The Chemist and Druggist, the fact being mentioned that the single British quinine factory has been partially safeguarded by an arrangement made, it is understood, at the suggestion of H.M. Government, whereby this factory is to be supplied with bark during the next ten years by certain British companies owning cinchona plantations in Java, who are not now parties to the cinchona contract, and whose output is estimated at about 9 per cent. of the total Java output. The demand for quinine in the British Empire is dealt with at length, but it is not easy to estimate the total annual consumption. The net consumption in the United Kingdom during the five years 1909-13 averaged 2,540,000 oz. per annum and during the three war years, 1915-17, it exceeded annually 3,000,000 oz. India during 1915-16 to 1919-20 was estimated to have had an annual consumption of 2,240,000 oz., and assuming that the rest of the Empire consumes 2,000,000 oz., the total demand in the Empire consumes 2,000,000 oz., the total demand in the British Empire is probably about 8,000,000 oz. Expressed on the basis of Java bark yielding 6 per cent. of quinine sulphate, this corresponds to  $8\frac{1}{3}$  million lbs. of bark, or about 36 per cent. of the Java output and 32 per cent. of the world's output. Towards those requirements the Empire's only contribution of bark is about 1,500,000 lb. i.e. the graphity of Indian grown about 1,500,000 lb., i.e., the quantity of Indian-grown bark used in the Government factories in Bengal and Madras. There is also available, say, 1,800,000 lb. produced by the British companies in Java. Towards the present requirements of 8,000,000 oz. India contributes annually about 1,200,000 oz. quinine made from Indian-grown bark and the United Kingdom supplies 1,800,000 oz., which during the next ten years will be made from Java bark under partial British control, so that this leaves 5,000,000 oz. to be supplied by foreign (chiefly Holland and Java) countries annually. The report then dwells on the possibilities of increased bark production in Judic countries in Living Calendary. production in India, on which point Lieut.-Colonel A. T. Gage, I.M.S., explains that large extension of cinchona orage, 1.31.3., explains that large extension of chichona cultivation in the areas in India in which this industry is carried on is not possible, and after a careful survey of other areas, recommends sites in Northern Tavoy, Burma, both for the planting of cinchona and the manufacture of quinine. In their general conclusions and recommendations the Special Committee are of opinion that a serious effort should be made to produce in India sufficient bark of the ledger and hybrid types suitable for

the manufacture of quinine. A note of warning is, however, sounded in regard to the possibility of over-production and its attendant troubles. The fact is recalled that this happened in Java prior to 1913, and which, but for the arrangement made in that year, might have led to a considerable reduction in the Java output of bark. If considerable extension should take place in India the If considerable extension should take place in India the effect on the market will require consideration. method of dealing with this matter would be by joint action between the Indian and Imperial Government, the former undertaking to produce the bark and both Govern-ments making such arrangements as may be necessary to ensure the whole of the output being utilised within the Empire for quinine. The Indian Government might take a sufficient quantity to keep employed the existing and any additional quinine factories in India, the remainder going to the Imperial Government towards meeting the manufacturing requirements of the United Kingdom both for home consumption and for export of quinine salts made in this country. This would mean the extension of quinine manufacture in the United Kingdom, where there is at present only one quinine factory which actually extracts quinine from bark. At present it would be difficult, if not impossible, to extend the manufacture of quinine in the United Kingdom, since adequate supplies of suitable bark cannot be obtained otherwise than through the Kina Bureau, which, since it is controlled by quinine interests of Holland and Java, could hardly be expected to encourage such an enterprise. The Committee are of opinion that there would be no difficulty in extending facilities for quinine manufacture by private enterprise in the United Kingdom if supplies of bark could be secured. There remains for consideration the question of finance. It appears to be clear that the method of fixing prices for bark adopted by the Kina Bureau is satisfactory, both to planters and quinine makers, and there appears to be no reason why India should not produce bark equal in quality and as low in price as the Java product. Further, it is clear that any fall in price would, in view of past experience, lead to abandonment of cinchona by the less remunerative plantations in Java. There seems to be no reason, therefore, why the Government of India should not secure for its bark, or guarantee to planters in India, whatever price is fixed by the Kina Bureau in Amsterdam for Java bark, and it is understood that this basis has been adopted in the arrangement previously referred to between British cinchona planting companies in Java. On the manufacturing side there would seem to be no difficulty. The Government quinine factories in India appear to have been financially successful. Should the extension of ciuchona planting in India be decided on, at least one other quinine factory will be required, either in India or in England. The plantations would not be in a position to furnish regular supplies of bark for several years, and if the new factory is to be started at once, arrangements would have to be made for it to be supplied in the meantime with bark from Java. If such arrangements cannot be made, the position of the factory would have to be deferred until the Indian plantations are in bearing. The Report discusses the question of the storage of adequate supplies of bark and quinine in preference to extended cultivation, but dismisses the storage policy as unremunerative as the capital would be more usefully employed in encouraging cinchona cultivation and quinine manufacture. In an appendix to the report are a number of statistical tables dealing with the production and trade of bark and quinine in India, the Netherlands, Java, France, Germany, the United States and the United Kingdom.

EARLY CLOSING AND MARKETS.—Complaints having arisen at Woolwich that the stallholders in the markets are allowed to remain for business after the closing hours imposed upon shopkeepers, a deputation has waited on the Town Clerk. It is contended, in opposition to the shopkeepers, that the Woolwich markets exists under an old charter and do not come under the provisions of the Shops Act. This contention is opposed by the Early Closing Association and the London County Council, and negotiations are proceeding.

#### Trade Report

e prices given in this section are those obtained by importers or manufacturers for hulk quantities or original packages. To these prices various charges have to he added, wherehy values are in many instances greatly augmented before wholesale dealers receive the goods into stock after which much expense may he incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

#### 42 Cannon Street, E.C.4, August 17

re failure of the Allied Conference to come to terms er the Reparation question was followed by a further llapse in German marks, which on Wednesday touched e fresh low record of 4,725 to the pound sterling, ack of confidence in the commercial situation has therere become more acute, pending the next step. The pressed feeling has applied chiefly to German chemist, which in several instances are cheaper, but as siness in this section is very restricted, many prices e nominal. So far as crude drugs and allied produce e concerned there is no pressure to sell, and the surprisg fact is that when any demand shows itself there a tendency to advance prices owing to shortage of ock. The feature of the week has been a sharp advance American peppermint oil, and to a less extent in panese dementholised oil. Menthol is firmer. Balsam

American peppermint on, and to a less extent in panese dementholised oil. Menthol is firmer. Balsam ru is easier. Cod-liver oil has been in better demand, ices showing a firmer tendency. Anise and canary eds are easier. Dutch caraway and cumin are dearer; mugreek is firm and scarce; growers of Belgian chamolies are tentatively asking exorbitant prices for new op. Spanish ergot has sold more freely. Hydrastis in senega are firm. Zanzibar cloves are quiet but cmly held on the spot. Mercury is 2s. 6d. to 5s. per ottel higher.

Higher	Firmer	Easier	Lower
rowroot rsenic unaway oil (Dutch) unaway seed ove oil oves (Zan.) unin seed unagreek seed ercury int oil (Jp.) eppermint oil (Amer.) itch unmeric	Benzols Cassia oil Camamon-leaf oil (Mysore) Citronella oil Java (c.if.) Cod-liver oil Eugenol Gum acacia Menthol Methyl aleohol Phenolph thalein Salol	Antimony (foreign) Ba'sam Peru Ba'sam Peru Ba'gamot oil Canary seed Coconut oil Hexamine Lemon oil Methyl salicylate Orange oil (Sic.) Palm-kernel Phenacetin Phenacone Piperazine Potash bromide Sodium bromide Sodium prusslate Sodium prusslate Spike oil (Sp.) Wax, carnauba	Acid oils Anidopyrin Anise Chloral hydrate Cocaine Coconut (desic.) Cottonseed oil Fuel oil Groundrut oil Guaiacol carb, Potash caustic Shellac (futures) Soya-bean oil (deod.

#### Crude Drugs, etc.

AGAR AGAR is firm, Japanese No. 1 offering at 4s. 6d. er lb., and No. 2 at 4s. 2d.

ANISE (STAR).—Chinese is offered on the spot at 72s. 6d. er cwt.

Antimony has been very dull and somewhat easier in he case of foreign, which is now obtainable on the spot £24, due to the comparatively cheap offers for shiptent, down to a little under £23 per ton c.i.f. Crude idle, varying from £14 10s. to £16, according to osition. English is steady at late rates.

ARACHIS OIL (groundnut).—Nice expressed oil "extra lufisque" is quoted at 70s. per cwt. ex wharf London.

BALSAM PERU is easier at 8s. per lb. on the spot for atural B.P.

D. -

BALSAM TOLU is quoted at from 3s. to 3s. 1½d. per lb. n the spot.

BUCHU continues to be firmly held at 3s. 10d. per lb. or good round green.

CAMPHOR (CRUDE) is unchanged at 3s. 4d. per lb., and August-September shipment is 3s. c.i.f.

CAMPHOR (REFINED).—Japanese 2½-lb. slabs are quiet at 3s. 6d. per lb. on the spot, and August-September shipment is 3s. 4d. c.i.f.

The exports from Japan during May amounted to 3,724 piculs, valued at 698,991 yen. During the five months ended May 31 they were as follows:—

	1920	1921	1922
To	Piculs	Piculs	Piculs
British India	 2,718	651	1,222
Great Britain	 637	343	1,745
France	 170	132	1,014
United States	 1,383	671	6,799
Australia	 110	216	420
Other Countries	 486	298	878
Ficuls	 5,504	2,314	12,078
Ven	3 058 431	497 624	2.401.033

Cannable indica.—African meets with a fair inquiry at from 1s. 4d. to 1s.  $4\frac{1}{2}$ d. per lb. for good green. Good Bombay tops can be had at 24s. per lb.

CANTHARIDES.—Sales of good Hungarian of Russian type have been made to come forward at 13s. 6d. per lb. c.i.f.

Chamomiles.—Judging from letters received from Belgium, the growers are asking very high prices for the new crop, from 350s. to 400s. per cwt. having been mentioned by them, and they would advise buying now. Buyers' idea of value on this side are more in the region of 250s. It is also intimated that although growers have paid more attention to chamomiles this season, the crops have not proved satisfactory and are a partial failure, owing to heavy rains and lack of sun. Evidently the Belgian growers are emboldened in their stiff attitude at the opening of the season by the fact that there are no stocks left to fall back upon, as the 1920-21 crops were extremely small and prices high.

Cod-liver oil has shown more inquiry on the London market, and the market is decidedly firmer at from 95s. to 100s, per barrel c.i.f. terms for finest new non-freezing Lofoten oil. The spot value is about 100s. to 105s, per barrel.

COPAIBA.—B.P. Maranham is unchanged at from 2s. to 2s. 2d. per lb., the latter-for filtered in cases, on the spot. Filtered Central American is 1s. 11d., and Para 1s. 7d. in cases. Fifty cases Para are to be offered by auction without reserve in Liverpool on Friday, August 18.

Ergor.—Sales of new crop good Spanish have been made to arrive at 3s. 3d. to 3s. 4d. per lb. c.i.f.; a fair business has been done.

GUM ACACIA is still tending firmer, natural half-hard sorts offering on the spot at from 65s. to 67s. 6d., and cleaned at 70s. to 72s. 6d. per cwt., with bleached up to 120s.

HYDRASTIS of fair quality is firm at 18s. per lb. on the spot.

Lycopodium is in fair demand at from 4s. to 4s. 6d.

MENTHOL is firmer and in rather better demand at 24s. to 24s. 6d. per lb. for Kobayashi-Suzuki on the spot, both prices having been paid, and for August-September shipment 23s. c.i.f. has also been paid.

MEECURY.—There has been rather more interest, and the market has certainly a firmer appearance, this being attributed to the steadily falling stocks. Of course, a good deal of mercury has been taken up of late from stocks held in second-hands at this end, and offers are becoming more restricted. The demand this week seems quite good, chiefly for re-export to the Far East, and home consumers have been buying a little more freely. The market is at around £11 15s. per bottle, and it seems doubtful whether anything could now be picked up at £11 10s., although business had been recently reported even at below that figure. American inquiries are said to have been diverted to this market. The feeling in America is firmer, while the demand there has probably been to some extent stimulated by the expectation that the proposed increased duty will be enforced at no distant date. Our imports for July amounted to only

1,250 bottles, against 4,576 bottles for July last year. The total for the seven months was 7,371 bottles, or but little more than one-third the quantities accounted for in the corresponding period of last year. The sales made by the Spanish and Italian mines to consuming centres direct are said to be satisfactory, and at prices

working out at well above London parity.

OLIVE OIL.—The following are current quotations per gallon, c.i.f. London, in 300-kilo. lots of French edible gation, c.i.f. London, in 300-kito, lots of French edities oil; Packed in 40-gallon casks; extra quality 11s. 3d. to 11s. 8d. Cream olive oil, 9s., douce 9s. 6d. Packed in cases of 2 by 4 gall., 6 by 1 gall., 12 by ½ gall., tins in case. extra quality, 12s. 9d. to 15s.; cream olive oil, 10s. 3d to 11s. 9d.; douce, 10s. 9d. to 12s. 6d. Spanish edible is offered at 7s. 3d. per gallon, ex wharf London.

SENEGA.—Spot prices are from 4s. to 4s. 3d. per lb., aud, to arrive, prices are firmer at from 3s. 11d. to 4s. c.i.f.

SHELLAC has been quiet, with usual standard TN orange quality offering at 330s.; superfine is 420s. to 470s.; RLI, 425s.; fine seconds, 380s. to 390s.; AC cakey, 380s.; and GAL, 305s. Futures have been inactive, the value of August and October being 300s.

STARCH PRODUCTS.—Japanese farina is unchanged at 25s. per cwt. c.i.f. afloat, and Dutch is 27s. 6d. English rice starch crystals are £44, and Continental £33 10s. per ton. American maize starch powder is 15s. per cwt.

Turmeric is dearer at from 30s. to 32s. 6d. per cwt.

for fair Madras finger on the spot.

WAY (CARNAUBA) is easier, fatty grey offering at 91s. and chalky at 82s. per cwt. on the spot.

WITCHAZEL EXTRACT is offered at 11s. 6d. per gallon, duty paid, for finest distilled in 40-gallon casks.

#### Seeds, Spices, etc.

Arrowroot has become scarcer. Good manufacturing St. Vincent is 5d. to  $5\frac{1}{4}$ d. per lb., and grocery  $5\frac{1}{2}$ d. to  $7\frac{1}{2}$ d.

CLOVES.—Zanzibar are again higher, with spot sales at from 1s. 2½d. to 1s. 3½d. per lb., market closing at 1s. 3d. New crop to arrive for September-November shipment is quoted at 113d. c.i.f., and October-December has been sold at 73d. to 8d. c.i.f. It is anticipated that spot prices will advance further before the new crop arrives, as the stocks are controlled and spot buyers may be squeezed.

COCONUT (DESSICATED) is dull and 1s. per cwt. cheaper at 34s. 6d. per cwt. for fine and medium on the spot. For near at hand 33s. is quoted, and August-October

shipment is 34s. c.i.f.

Pepper continues quiet, with fair black Singapore offering on spot at 4d. per lb. August-October and September-November shipments have been sold at 33d. c.i.f. Fair Tellicherry is  $4\frac{1}{2}d$ . on the spot, Aleppy  $4\frac{1}{4}d$ . and Lampong  $4\frac{1}{8}d$ . on the spot. White Muntok is  $7\frac{1}{4}d$ . August-October or September-November is  $6\frac{5}{8}d$ . c.i.f., d.w. White Singapore is at  $6\frac{1}{2}d$ . on the spot and  $6\frac{1}{8}d$ . c.i.f., d.w., for August-October shipment.

PIMENTO is dull at 2d. to 28d. per lb. on the spot.

Seeds.—The following are current spot quotations: Spanish Anise is easier at 77s. per cwt., and Russian at 68s. Canary seed is very quiet and slightly easier. Mazagan is quoted at 92s. 6d. per quarter, Larache at 72s. 6d.; other grades are unchanged. CARAWAY SEED .-Dutch is very strong and dearer at 90s. to 95s. per cwt. Morocco is also higher at 75s. to 80s. for sound. CORIANDER SEED is firm. Sound is 35s. to 37s. 6d. per cwt.; wormy is obtainable at from 13s. 6d. to 22s. CUMIN SEED is firm and scarce. Maltese is 105s. per cwt., good Morocco 100s., and inferior 95s. DILL SEED is 25s. per cwt. FENNEL SEED is 57s. 6d. per cwt. Fenugreek seed is firm and scarce at 17s. per cwt. for Morocco. Linseed.—Moroccan is quoted at 25s. c.i.f. London. Manchurian Hemp seed is 14s. per cwt. MUSTARD SEED is 34s. per cwt. for good English vellow.

#### Essential Oils

SEVERAL oils have been active during the week with resulting rises in value. American peppermint and Japanese mint oils are much dearer. Distillers have advanced the price of clove oil. Cassia and Java citronella (c.i.f.) are firmer. Sicilian oils are cheaper. Methy salicylate is easier, and eugenol has a firmer tendency.

The imports and re-exports of essential oils into and from the United Kingdom for July 1922, compared with the same month in 1920 and 1921, were as follows:

July imports in lbs	1920 <b>2</b> 41.133	1921 18.090	1922 193,599
July imports in value July re-exports in lbs	£149,720	£28,612 49,689	£52,968
July re-exports in value		£17,107	70,022 £43,827

ANISE (STAR).-" Red Ship" is quiet on the spot at from 2s 3d. to 2s. 4d. per lb.

BERGAMOT is easier on the spot at from 14s. to 14s. 6d per lb. for 37 to 39 l.a., and for shipment at 13s. 6d. to 14s. c.i.f.

Camphor.—White essential is quiet and about steady at from 78s. to 80s per cwt. in drums. For shipment 65s. c.i.f. is quoted. Sales of brown are reported at 60s c.i.f.

CARAWAY .- Dutch is dearer for double rectified at 18s. 6d per lb. on the spot.

Cassia is firmer on the spot at 4s. 8d. to 4s. 9d. per lb. for 80 to 85 c.a. For shipment, 4s. 32d. to 4s. 4d. c.i.f is quoted.

CEDARWOOD.—American is cheaper at 1s. 6d. per lb. in tins and cases; in drums 1s. 5d. is quoted on the spot, and 1s. 4d. c.i.f.

CINNAMON.—Ceylon leaf is not in much demand at 42d per oz. spot and  $3\frac{1}{2}$ d. c.i.f. Mysore oil has been sok out in some quarters at the higher rate of 7s. 9d. per lb

CITRONELLA. - Ceylon continues in fair demand and is firm at 2s. 6d. per lb., in drums, on the spot; near a hand is quoted 2s. 3d. to 2s. 4d., and for shipment 2s. 1d. c.i.f. is about the value. Java has been in demand for shipment and re-sellers quote 2s. 9d. c.i.f., which is a shade higher. On the spot 2s. 101 d. is wanted.

The total shipments in lbs. from Ceylon from January 1 to June 30, for the years 1919, 1920, 1921, 1922, were a follows:-

During the six months of 1922 among the principal consigness were: The United Kingdom, 85,100 lbs. (in 1921 193,599 lbs.); U.S.A., 440,834 lbs. (in 1921, 243,657 lbs.); Germany, 17,318 lbs. (in 1921, 7,961 lbs.); India, 12,171 lbs (in 1921, 40,409 lbs.); Spain, 5,394 lbs. (in 1921, nil); Victoria 14,825 lbs. (in 1921, 9,291 lbs.); New South Wales, 9,633 lbs. on 1921, 23,264 lbs.); China, 2,794 lbs. (in 1921, 44,654 lbs.); Japan, 2,343 lbs. (in 1921, 52,215 lbs.)

CLOVE.—English distillers' price is 9s. 6d. per lb., a which figure there is very little demand. There are good supplies being made at contract prices however. Mysore oil in first hands has been practically all bought up.

EUCALYPTUS has been in better demand; for 70 to 75 per cent cincol 1s. 4½d. to 1s. 5d. per 1b. is quoted For 75 to 80, 1s. 6d. is wanted.

GERANIUM.—Bourbon is firm at from 23s. to 24s. per lb., on the spot. Holders of Algerian quote from 35s

JUNIPER BERRY.—B.P. oil is quoted at from 6s. to 6s. 3d. per lb. on the spot.

Lemon is easier at from 2s. 9d. to 2s. 11d. per lb., or the spot according to seller, and 2s. 8d. to 2s. 10d. c.i.f. for shipment.

LEMONGRASS.—Cochin is about steady at 23d.  $2\frac{13}{16}$ d. per oz. on the spot, and for shipment at  $2\frac{7}{16}$ d c.i.f.

-Japanese dementholised Kobayashi-Suzuki is MINT.firm at 6s. 3d. per lb., on the spot. Sales have been made at 5s. 6d. c.i.f. to arrive, but 5s. 4½d. c.i.f. could probably now be done.

NUTMEG is unchanged on the spot at about 5s. per lb. Orange.—Sicilian sweet is easier at from 11s. to 12s per lb., on the spot or c.i.f. to arrive. West Indian if unchanged at 10s. 6d. spot.

PALMAROSA is unchanged at from 15s. 6d. to 15s. 9d. per lb., on the spot.

PATCHOULI.—On the spot holders quote from 35s. to 37s. 6d. per lb., for Penang. Mysore is 40s.

PEPPERMINT. - American natural tin oil has advanced, and from 14s. 6d. to 16s. per lb., c.i.f. to arrive is quoted. Spot may be obtained at from 14s. to 16s. The market is dealt with editorially (p. 286). H. G. H. has been sold at from 19s. 6d. to 22s. 6d. per lb.; at the close 23s. 6d. was asked. Franco-Mitcham is 32s. 6d. on the spot.

ROSEMARY is quoted at from 1s. 8d. to 1s. 9d. per lb., in drum lots on the spot for Spanish.

SASSAFRAS.—Genuine natural American is unchanged at 5s. 6d. per lb. on the spot.

SPIKE.—Spanish oil is now being distilled and the crop is promising well. Spot quotations are easier at about 3s. 2d. to 3s. 4d. per lb., for drums.

WORMSEED.—American has improved slightly after touching about 12s. per lb., and 12s. 9d. on the spot is now quoted. The demand has recently been good.

## Aromatic and Synthetic Chemicals, etc.

Aromatic and Synthetic Chemicals, etc.

The following are current spot quotations at per lb.:
Aubepine, 9s. to 11s., according to quality. Benzyl Acetate and Benzoate, 2s. 6d. to 3s. Bromstyrol, 7s. to 9s. Coumarin, 11s. to 11s. 6d. Diphenyl oxide, 4s. 6d. Eugenol is firmer at 12s. to 12s. 6d. Heliotropine varies from 5s. to 6s. Iso-eugenol is 18s. to 20s.

Methyl anthanilate, 6s. 6d. to 7s. 6d. Methyl salicylate, easier at 2s. 2d. to 2s. 3d. in carboys. Sarrol, 3s. 3d. Terpineol, 2s. 4d. Vanillin, in cwt. lots, 34s. to 35s. to 35s.

## Pharmaceutical Chemicals, etc.

A VERY unsatisfactory state of affairs continues in this market. Business is consistently poor, with the ten-dency to lower prices as marked as ever. This week quite a large number of products are offering on spot at cheaper rates, but so far there has been no improvement in business. Bromides have quietened down in demand

ACETANILIDE is offering at about 1s. 4d. per lb., but it is difficult to secure orders at that rate.

AMIDOPYRIN has been reduced to about 16s. 3d. to 16s. 6d., with the market still flat. Makers' price is 17s. Ammonium Benzoate is still neglected with quoted values

at about 4s. per lb. AMMON, ICHTHYOSULPH. is a shade easier at from

1s. 10d to 2s. per lb.

Aspirin holds quite steady and is a fairly good market at 2s. 10d. to 3s. per lb. as to seller.

BARBITONE on spot is offering at round about 10s. per

BENZOIC ACID has receded to its former level of 1s. 6d. to 1s. 9d. per lb.

Benzonaphthol is unchanged at 4s. 9d. to 5s. per lb. as to quantity.

BETANAPHTHOL.—Resublimed is now offering on a slow market at 1s. 10d. per lb.

BENZALDEHYDE (.03) is level on the weck at 3s. per lb., with very little doing.

Bromides.—The recent spell of brisk business seems to have finished, and prices on spot are weakening. Ammonium is not at all firm as quoted at about 11d. per lb., and slightly less for quantity; potassium, crystals and granular, is down to the cheaper price of 9d. per lb.; sodium, crystals and granular has also moved in buyers' favour to 9d. per lb.

CALCIUM LACTATE continues in limited demand at the unchanged rate of 2s. 3d. per lb.

CHLORAL HYDRATE.—Duty paid—is now offering on spot at the cheaper price of 4s. 6d. to 4s. 9d. per lb. as to quantity.

CITRIC ACID.—The position is very little altered from last week, with spot plentiful at about 2s. 3d. to 2s. 3½d. per lb., less 5 per cent., the forward position would be at shaded rates.

COCAINE.—The general price for hydrochloride is now about 15s. per oz., and slightly less for quantity.

CREOSOTE.—B.P. is level on the week at 2s. 9d. to 3s.

GUAIACOL CARBONATE, which has been unsteady for some time, seems to be now generally offered at the cheaper rate of 8s. 6d. per lb.

HEXAMINE is slightly easier at 3s. to 3s. 1d. per lb., and a moderate business has been done.

METHYL SULPHONAL is level on the week on quotation, but the market remains neglected at 15s. to 15s. 6d. per lb.

PARAFORMALDEHYDE is irregular on quotation—some offers are now said to be down to 2s. 9d. per lb., with most others in the region of 3s. to 3s. 3d.

PARALDEHYDE is steady and unchanged at 1s. 4d. to 1s. 6d. per lb.

PHENACETIN has fallen back to 5s. to 5s. 3d. per lb., with but little doing at present.

Phenazone has eased off to about 7s. to 7s. 3d. per lb. on a dull market.

Phenolphthalein.-With larger inquiries and the disposal of some of the cheap stocks in second-hands, prices are firmer at from 3s. 10d. to 4s. per lb., and slightly less for quantity.

PIPERAZINE is easier, but seldom asked for, and is quoted at about 3s. 3d. per oz.

POTASSIUM IODIDE.—The exports from Japan during May amounted to 615 kin, valued at 5,693 yen. During the five months ended May 31 they were as follows:

		1920	1921	1922
Kin	 	9,089	7,989	3,811
Yen	 	80,405	53.140	31,256

Of crude iodine the exports during May amounted to 2,004 kin, valued at 13,102 yen. During the five months ended May 31 they were:

		1920	1921	1922
Kin	 	9,556	3,521	9,128
Yen	 	66,040	20,861	53,574

POTASSIUM PERMANGANATE.—B.P. remains quoted at 9d. per lb-, but orders would probably be executed at slightly less.

Potassium sulphoguaiacolate is nominal, with no

QUININE.—Makers are fairly busy, but second-hands report little demand at 2s. 1d. per oz. for sulphate, the first-hand price being 2s. 3d.

RESORGIN on spot is quoted at 7s. per lb., with little business at that rate.

Salicylic acid is unchanged at 1s. 4½d. to 1s. 5d. per lb. for crystals and powder.

SALOL is perhaps a shade firmer, and has recovered to 2s; per lb.

Sodium benzoate has eased off to 1s. 5d. to 1s. 7d. per lb., and is rather dull.

SODIUM SALICYLATE has cheapened, with offers now being made at—crystals, 2s. 3d., and powder, 2s. 1d. per lb.

Sulphonal continues unsteady on quotation up to 15s. 3d. per lb.

TANNIC ACID.—Leviss stands at 3s. 3d. per lb., with spot sellers at this rate.

TARTARIC ACID seems to have been in a little better demand, and rates are about the same, being round about 1s. 4d. to 1s. 5d. per lb., less 5 per cent.

THYMOL remains quiet with quoted values at 19s. to 20s. per lb. for good white crystals, and for "off colour" 18s. 6d. has been paid.

## Industrial Chemicals, etc.

London, August 16.

Some products continue to be well called for, but generally there is marked dull tone on the market. However, current values show little change on the week, and appear fairly steady. Acetic acid continues strong.

ACETIC ACID continues in brisk demand, with prices

quoted firmly on account of rise in acetate of lime: 80 per cent. technical, £39; 80 per cent. pure, £45; 98 per cent. glacial, £67 10s. to £68 per ton, in casks and demijohns, ex wharf, London.

ACETONE holds steady and is meeting with a fair demand at about £76 per ton in drums for British Government specifications.

Alum.—Lump has livened up a little and is now quoted at £13 10s. to £14 10s. per ton for home and export.

Ammonia (anhydrous) is unchanged at 1s. 9d. per lb. for 99.95 per cent., with the market quiet and rather weak.

Anmonium chloride remains slack as last quoted—32s. 6d to 33s. per cwt.

Ammonium sulphate for export is firm and continues to be inquired for at £17 per ton.

Arsenic.—Under the growing scarcity of supplies prices have been pushed up to a higher level again. Best white Cornish in first hand varies from about £43 to £44 per ton delivered London, but small lots are still obtainable from dealers at below the lower figure. Importers of foreign arsenic are quoting stiffer rates at around £42. The demand, however, continues restricted.

BARIUM CHLORIDE is rather scarce on spot and is quoted at £21 to £22 per ton for 98-100 per cent.

BLEACHING POWDER (35 to 37 per cent.) for export is about £12 10s. to £13 per ton, with home-trade prices about £1 per ton cheaper.

Copper-sulphate.—The volume of trade doing is comparatively restricted, the demand from the Continent being distinctly lighter and the tendency can hardly be called firm, although some large makers are still asking as much as £28 per ton for casks f.o.b. There is some very keen competition, however, and business is being arranged down to about £26 by Lancashire makers. The July exports amounted to 1,316 tons, against 558 tons for July last year. The aggregate for the seven months was 36,379 tons, against only 23,984 tons for the same period in the previous year.

CREAM OF TARTAR remains fairly steady at about 110s. per cwt. on spot and 105s. c.i.f. for forward shipment.

FORMALDEHYDE is now very firm at £70 per ton on the spot with little available.

GLAUBER'S SALT holds steady at £5 per ton in bags; demand small.

Oxalic acid is unchanged at  $7\frac{1}{2}\mathrm{d}.$  per 1b., with very little doing.

Potassium bichromate is maintained at  $6\frac{1}{2}d.$  per lb., but the market has been dull.

Potassium chlorate has been considerably brighter, and very few offers are now being made below  $4\frac{1}{2}d$ . per lb.

POTASH CAUSTIC (88-92 per cent.), is offering, ex wharf, at £30 per ton. British has also been reduced to this figure.

POTASSIUM PRUSSIATE is unchanged. Yellow is firm on spot at 1s. 6d. per lb., and red is quoted at about 4s. 6d. to 4s. 9d. per lb.

SAL AMMONIAC remains sluggish, with importers offering at unchanged rates: dog-tooth crystals, 53s.; medium-sized crystals, 48s.; and fine white crystals, 32s. to 33s. per cwt.

SALTCAKE is freely offered, with no improvement in demand at £4 per ton and upwards.

SODA ASH (58 per cent. light alkali) remains decidedly slow with spot prices about the same. London, about £9 5s. per ton; Manchester and district, about £8 5s. per ton

Soda Caustic.—The reduction in British makers' prices for home trade stated last holds good: 70 to 72 per cent., £20 5s.; 76 to 77 per cent., £22 5s. per ton. Dealers are quoting at: 70 to 72 per cent., £20; 76 to 77 per cent., £22 per ton, ex wharf, shipping port.

SODIUM HYPOSULPHITE.—Pea crystals on the spot are in small demand only at about £19 10s. per ton; commercial quality is at about £14 per ton.

SODIUM NITRATE is unchanged on a quiet market at £14 10s per ton.

SODIUM PRUSIATE has eased off to about 114d. per lb., and has not been quite so brisk.

COAL-TAR PRODUCTS, ETC.—Pitch has gone to higher figures and stands very firm. Pure methyl alcohol is also firmer. Other products are unaltered on the week. is now quoted very firm at 80s. to 82s. 6d. per ton, and seems likely to harden up to the latter price. Annume on and salt remain idle and nominal. Pure methyl ALCOHOL has advanced on a brighter market to £65 per ton, ex wharf, London. Cresylic acid stands very firm and in fair demand at 2s. 4d. per gallon, naked at makers' CREOSOTE OIL is unchanged at about 6d. per gallon. CARBOLIC ACID crystals are steady, but in no great demand at  $5\frac{\pi}{8}$ d. per lb. Pyridine remains slack with values unaltered at 5s. 9d. per gallon. Hexamethy-LENE continues dull, with quoted price unchanged at 3s per gallon. NAPHTHALENE has been rather quieter at £17 Crude, £4 to £7; crystals, £15; powder, £16; halls, £25; candles, £34; tablets, £34 per ton, packages free.

## Fixed Oils, etc.

WITHOUT exception the products in this market have been quiet throughout the week, and at the close a general reduction in rates on the week was recorded. Turpentine seems to be somewhat steadier after the recent long spell of falling prices, and sharply advanced at the close on Wednesday.

ACID OILS.—Slightly lower prices are now being quoted, but there is not much offering on spot; coconut, 36s. 6d.; palm-kernel, 36s. 6d. No groundnut on spot offering. Castor oil.—Hull prices are unchanged with the demand quiet; pharmaceutical, 57s.; first pressings, 52s.; second pressings, 50s., ex mills Hull, in not less than one-ton lots. Coconut oil has remained dull, with current rates somewhat lower; deodorised, 47s.; Ceylon, 40s.; and Cochin. 44s. Cottonseed oil.—All grades are quoted again this week at lower prices, and business has been slow; deodorised, 41s.; common edible, 45s.; soapmaking, 43s.; crude, 40s. GROUNDNUT OIL.—Deodorised has been reduced to 54s. 6d., and crude Oriental to 49s., with the market still dull. LINSEED OIL.—The dullness of trade demand on home account and the reduced amount of inquiry from across the Atlantic due to the reported increase in the import duty passed by the Washington Authorities both for linseed and the oil-product, are undoubtedly having an effect on the market. With a reduction of our exports to America of linseed oil, such as may be expected, the position of spot oil should tend The duty on imports of linseed was raised from 25 to 40 cents per bushel, and that on linseed oil from 10 to 20 cents per gallon, the new figure representing £12 per ton. During the past week business on the London market has been decidedly quiet, and at the close the market, at the rates quoted, was weak. On spot, 42s.; August, 40s. 6d.; September-December, 36s. 10gd.; January-April, 34s. 6d. Hull: On spot, 43s. 6d.; August, 41s. 9d.; September-December, 37s. 6d. Palm-Kernel very dull tone is reported prices easier on the week at-deodorised 45s., and crude at 39s. PALM OIL.—At the cheaper rates quoted the market on spot is still weak: Lagos, 33s. 6d.; softs, 31s. 9d.; hards, 32s. 6d. Business has been slow. RAPE our has remained quiet on spot with values unchanged; refined 52s., and crude 47s. SOYA-BEAN OIL.—A dull tone is recorded with deodorised cheaper at 47s. and crude Oriental unchanged at 40s. TURPENTINE.—The position is not essentially changed, but the tendency early this week was once again in buyers' favour, chiefly because of the restricted trade demand. At the close the spot market advanced 3s. 6d. per cwt. The July imports were 2,004 tons, against 1,520 tons for July in 1921, the total for the seven months being 10,163 tons, as compared with only 4,669 tons for the same months last year. Visible stocks now total about 13,700 barrels, which is about the average for this time of the year, and compares with 14,500 same time last year. On the spot market closes dearer at 91s. 9d., August 91s. 9d., September December 92s. 6d.

Animal and fish oils, tallows, etc.—Tallows continue very quiet with rates unchanged. Fish oils are dragging and not at all firm. Bone grease is easier on the week. Other products are unchanged. Bone grease.—Quoted rates for all grades are easier this week and the market has quietened down. Pale water, 32s. 6d.;

own, 30s. 6d.; benzine, 30s. 6d. NEAT'S FOOT OIL ries from 5s. to 5s. 6d. per gallon, according to acidity. LE HORSE OIL is unchanged at 38s. per cwt. delivered small lots. English LARD oil is steady at 62s. to 74s. r cwt.; American prime winter strained lard oil on ot London, 75s. per cwt. in barrels. Fish oils conot London, 75s. per cwt. in barrels. FISH OILS connue quiet, and so far quoted prices are on about the
me level, but the market has a weak tone. Filtered
le whales, 37s. to 42s.; filtered brown, 30s.; filtered
ark brown, 27s.; thickened, 39s.; brown whale cake,
s.; brown stearine, 21s.; refined sperm oil, 39s.; best
fined southern sperm oil, 40s.; seal oil, 24s. to 42s.;
hite seal oil, 43s.; English coast cod, 30s. 6d.; hardened
hale oil, 39s. to 42s., in barrels, ex wharf, London.
heaper prices quoted ex provincial ports. Tallows.—
ustralian.—Since the last public auction of a fortnight ustralian.—Since the last public auction of a fortnight to this market has remained quiet and prices mainined on about the same level. Fine mutton, 41s. 6d.; he beef, 42s. 6d.; good mixed, 40s.; inferior, 35s. LUBRICATING, MINERAL, AND BURNING OILS, ETC.—BENZOL s firmed up a little and is quoted a point higher, uel oil is offered considerably cheaper. Other prices e unchanged on the week, with business remaining cidedly slow. Benzol has recovered somewhat and is w steadily quoted at 1s. 11d. per gallon f.o.r. makers' orks in buyers' packages. Burning oil.—Crude No. 3, d.; No. 2, 8d. per gallon, barrels free. Quotations are changed, with very little doing at present. FUEL OIL. A reduction in price has been made, but there has been improvement in demand. 905-910 gravity, £4 2s. 6d. r ton; 950 gravity, £3 5s., ex tank. Naphtha holds ite steady on a dull market at 1s. 10d. per gallon. LVENT NAPHTHAS.—Both grades, 90 to 160 and heavy 90 190, are still quoted at 2s. per gallon, drums extra. ARAFFIN WAX AND SCALE.—In Is market is steadily mainined but has not been active. Wax varies from 2\frac{1}{4}d. to d. per lb., as to melting point. Scale is firm at 2d. for tot 122 to 124 m.p., and 1\frac{3}{4}d. c.i.f.; yellow, 1\frac{3}{4}d. c.i.f., ompt shipment. Petroleum oils.—No change in dues; market firm. American standard white, 1s. 4\frac{1}{4}d.; ater white, 1s. 5d. Petroleum jellies.—There is no constant a second Super white. P. P. 367. lange to record. Snow white, £65; white B.P., £63; bllow, from £24 to £43; red vet, £19; ruby red, £21; rk stiff green, £18 10s., ex wharf London, barrels free. er gallon, barrels free. White oils.—Values are main-ined on a slow market. Special No. 1, £43; No. 1, 39 10s.; No. 14 half-white, £35, drums free; No. 2 lf-white, £28 in barrels, all ex wharf, London. Lubridf-white, £28 in berrels, all ex wharf, London. Lubrating oils.—No change to report in spot or shippers' cices. Pales, £12 10s. to £24 10s.; reds, £15 to £30; ark cylinders, £15 to £35; filtered cylinders, £20 to 37; blacks, £8 to £19, all ex wharf, London, less 2½ per ent. Soluble oil, £23 10s. per ton.

## Persian Tragacanth

I.M. Consul-General at Bushire, writing in reference to is Report on the Trade of Bushire in 1920-21, states that o duty has as yet been charged on the export of tragacanth. oduty has as yet been charged on the export of tragacanth, tax is made, however, on the cultivation of tragacanth f 30 per cent, of its estimated value. This is paid by the ultivator after it is collected and before it is sold. It is, herefore, virtually a tax on the export of the gum. Prosals have been in the Persian Parliament to impose a lustoms duty of 30 per cent, instead of the tax, but so far is has not been sanctioned.—" Board of Trade Journal."

## Ceylon Coconut Oil

Ceylon Coconut Oil

HE bulk of the exports from Ceylon was taken by the nited Kingdom in 1921, the quantity being 268,219 cwt. It of the total of 484,724 cwt. exported. The next important avers were Holland (78,833 cwt.), Earnt (32,958 cwt.), orway (28,828 cwt.), and Germany (25,036 cwt.). The nited Kingdom and Germany bought mo.e than in 1920, at Holland and Norway less. Exports to Egypt were praceally the same as in the previous year. Here, again, the verage price was less than in 1920, but prices during the ret half were slightly higher than during the second halfear. Only 2,006 cwt. was exported to the United States, at this was during the first half-year, against 29,267 cwt. in 20 and 147,031 cwt. in 1919. The new proposed American wiff has had an adverse effect on the trade in coconut oil. was withdrawn too late in the year to admit of any corts taking place before the close of the year. Products

of the ecconut palm exported were valued at 713 lakhs, against 709 lakhs in 1920. The exports of the three principal products for the past six years have been:—

	•	3	Desiccated	Coco-	
			Coconut.	Copra.	nut oil.
Year.			Cwt.	Cwt.	$\operatorname{Cwt}_{\cdot}$
1916	•••		306,149	1,309,939	323,017
1917	•••		272,059	1,078,704	434,699
1918	,	•••	203,366	1,272,321	527,481
1919	***		675,060	1,759,525	675,999
1920	•••		5 <b>1</b> 8, <b>7</b> 35	1,357,870	507,527
1921	•••		870,515	1,367,431	484,724

## Chinese Vegetable Oils

Chinese Vegetable Oils

The trade in Chinese vegetable oils during 1921 was disappointing, not to say unprofitable. Prices in the consuming markets of the world were below producing costs, due in great part to the large stocks held by speculators and carried over from 1920, while in China, owing to growing consumption of oils by the Chinese, supplies for export were scarce and prices generally too high to allow of profitable export. The principal article in this group is soya bean oil. The item following in importance is groundnut oil, which shows a decrease from 826,272 piculs in 1920 to 461,661 piculs in 1921. Next comes wood oil, which likewise declined, the respective quantities being 540,716 and 419,549 piculs in the two years referred to. A steady decrease is also noticeable in the export of tea oil, which diminished from 56,976 piculs in 1919 to 24,638 piculs in the following year, while the 1921 total only reached 15,979 piculs. Searching finally for items in this group which did not join in the general decline, only rape seed oil and vegetable oils, "other kinds" can be mentioned, the former variety increased from 184 to 1,186 piculs and the latter from 42,822 to 45,178 piculs during tho year under review. The total exportation of soya beans from China increased from 10.3 million piculs in 1920 to 11.5 million piculs in 1821. Of the latter total, 2,650,808 piculs left China via Suifenho on the Vladivostock route and may be considered to be the bulk of the North Manchuria erop. The 6,796,418 piculs exported from Dairen are part of the harvest gathered in districts south of Kwanchengtze, which was transported southwards by the South Manchurian Railway, and of the balance, 536,000 piculs originated in the Hankow district. Of the 162,000 tons (at 2,240 lb.) reported Railway, and of the balance, 536,000 piculs originated in the Hankow district. Of the 162,000 tons (at 2,240 lb.) reported to have been shipped via Vladivostock during the year 1921, 91,000 tons went to Japan, which is still the largest buyer of Manchurian beans. 43,000 tons were directed to Port Said for orders, and 11,000 tons were destined for Great Britian.

## Refining Australian Beeswax

ALTHOUGH beeswax has already been through some process of purification before it leaves the apiarist for the merchant, it is still comparatively rough in many cases. Different methods of refining the product are adopted. A. A. Burnett & Co., Ltd., of Sydney, lately communicated to the New South Wales Department of Agriculture information redescribed his method as follows: "I receive the wax in square blocks, purified in the first but poor way in use by the traders in the interior. Here I have proper kettles large enough to melt half a ton, and the taps of which are about 18 in above the bottom. After being follow with about 18 in. above the bottom. After being filled with water up to about 2 in. below the tap, the kettle is filled with wax. As soon as the wax commences to boil the fire is taken away, and after a rest of about six hours the wax is tapped off into the 'forms.' Before turning on the tap is tapped off into the 'forms.' Before turning on the tap I first of all pour into the form a bucket of boiling water, so that any dirt which may run with the wax may sink through the water. After twenty-four hours I turn the form out, when I nearly always discover a dark-coloured skin at the bottom of the form touching the water. This is scraped off and the block covered with hessian ready for export." While commending the foregoing method, Mr. W. A. Goodacre, Senior Apiary Inspector, adds: "A similar method on a smaller scale is generally used by competent apiarists. A vessel is quarter filled with water and the wax added, heat being then applied and the wax melted slowly but thoroughly; it is then allowed to rest for about five hours for the purpose of letting the water and impurities settle. thoroughly; it is then allowed to rest for about five hours for the purpose of letting the water and impurities settle. The wax is then drawn off from the top until it shows evidence of coming near the impure matter; it is then usually strained into the form or mould, which should contain a small quantity of hot water. After being poured into the mould it is covered and allowed to cool slowly, so as to prevent cracking. In about twenty-four hours it can be removed from the mould and any adhering impurity scraped off. In the commercial handling of way in large scraped off. In the commercial handling of wax in large quantities it is often found desirable to use sulphuric acid, about 2 lb. of acid to 1,000 lb. of wax being necessary.

## French Lavender in 1922

An interesting report has been issued by M. Julien Guigue, president of the syndicate of growers of lavender flowers and distillers of lavender oil in the Department of Vaucluse and neighbouring Departments, from which the following salient facts are abstracted. M. Guigue is the director of the important lavender plantations and distilleries of the La Lavande Française Co.

In view of the discussions to which the price of lavender oil has given rise, it is necessary to add that no syndicate, whether of consumers, buyers, or producers, has any interest in striving to fix a price for lavender oil. Such a course would have disastrous results, either by diminishing the output and thus causing a rise in price, or by increasing production in the fertile plains to the detriment of the poorer and mountainous regions in which lavender grows naturally. In discussing the price of lavender oil, the actual value of the plant is often overlooked, and whether the lavender be cultivated or grows wild, certain expenses have to be added to the cost of collection, such as are entailed by distance from a good road, or from the nearest village. It has always been the custom for the owner of a field, or of a mountain, on which lavender grows, to sell his harvest by auction. The lavender fields of Ventoux, which have been put up for auction for over twenty-five years, fetched 9,030 fr. in 1913 and 8,250 fr. in 1914, while in 1920 the excessive figure of 68,000 fr. was paid. A harvest which, ten years ago, fetched on an average 200 fr. prior to the actual collection of the plants, retched about 5,000 fr. in 1920, and, in spite of the present crisis, the price has certainly declined by not more than 1,000 fr., a fact which proves that the cost of collection has to be considered, since it is from four to five times higher than was the case prior to the war. The cost of collection will always prove an important factor in fixing the cost price for lavender. The cost of cutting and collecting the plants amounted to from 4 to 7 fr. per 100 kilograms prior to the war; in 1919 this cost 25 fr., and in 1920, 50 fr. This year the growers declared that they would rather not gather the harvest of lavender if they had to pay more than 10 to 12 fr. per 100 kilos of plant to the harvesters. The result was that only a few labourers offered their services, and, where 200 were required, only 20 men were available, and, being in great request, were able to press their demands, notwithstanding the repeated assertions of the growers, who ultimately were compelled to pay 25 fr. per 100 kilos of plant on certain days. The cost of labour and of transport have also increased. Whereas, prior to the war, 50 fr. were paid for tilling a field of one hectare, now 150 to 200 fr. have to be paid, and as much as 500 fr. have even been claimed. All the other incidental expenses have increased at least three-fold. Therefore, oil of lavender, which prior to the war was regarded as a cheap line, selling at 30 to 40 fr. a kilo., will, it is hoped, be able to fetch a price ranging between 90 and 120 fr., according to circumstances, when prices are stabilised. The production of lavender has constantly decreased during the past twenty years. Discussions regarding the price of oil of lavender, such as took place at the fair at Digne, can only lead to regrettable dissensions, and should be avoided. The position of the lavender industry can be materially improved by a thorough study of the existing conditions, and by exploring the various means likely to bring about an improvement. The following proposals are advanced for the consideration of those desirous of furthering the interests of the French lavender industry:-Means of prelavender flowers to permit of their distillation during the winter; suggestions for improving the keeping properties of oil of lavender on storage; improvements in the methods of distillation of the oil; cultivation and manuring of wild growing lavender, and also of lavender plantations; formation of co-operative distilleries; steps to be taken to bring about a reduction in the Customs duties on lavender oil in foreign countries; alterations to be made in the requirements for lavender oil established in the French Codex and in foreign pharmacopæias; legal measures to be introduced to suppress adulteration; a study of the production of lavender; investigations into less known uses for lavender oil, and means of securing fresh fields for its use.



Cheap Caustic Points

SIR,-We think you will be interested to learn that there are a large number of mounted caustic points or the market which are being offered at a very low price but which, on analysis, will be found to contain only 20 per cent. to 25 per cent. of silver nitrate. Genuine caustic points should contain 90 per cent. of silver nitrate. as 10 per cent. of potassium nitrate is all that is necessary to make them sufficiently tough. We think, therefore that all chemists and the public generally should be warned against these adultcrated and worthless points. as it stands to reason that they cannot possibly be really effective in their work. We believe them to be of German origin. The price at which they are sold is one with which it is quite impossible for the genuine article to compete; the foreign manufacturers, not content with the advantage of the rate of exchange, are sending out caustic points with less than one quarter of the silver nitrate which they should contain.

Yours faithfully, JOHNSON & SONS (MANUFACTURING CHEMISTS), LTD. London, E.C. 2.

The Struggle for Existence

Sir,—My letters on borrowing the cash (C. & D., June 24, p. 207; July 22, p. 139) were intended for likely bosses, not for incipient Bolsheviks. Men who cannot get credit, or who cannot borrow money, are not in my class at all; and as 90 per cent. of men in business to-day started on borrowed capital, your readers can form their own conclusions as to why some would-be borrowers are turned down. Banks live by lending, for their only other income is 2s. 6d. per £100 for handling cheques, which scarcely pays the rest. £100 for handling cheques, which scarcely pays the rent. Lawyers live by bringing lenders and borrowers together. All you have to do is to convince wholesalers and others that you have the knowledge and the habit of thrift, and you will get the credit. No hard-and-fast agreements are made over private borrowing. A certain procedure is followed; certain facts are requested on paper procedure is followed; certain facts are requested on paper by lenders; but what they actually and finally decide on is how you show up in an interview. Capital is always timid when lending. If you are cocksure, bump-tious, argumentative, it will soon be found that the security is not enough. If you are reasonable, diplo-matic, and desirous of a fair deal, you will get generosity, just as I have got it many a time, and many others also whom I could name. In fact, it is almost one of the functions of capital to seek out and support the men who are bosses by nature, and to refuse to lend to those who are manifestly not bosses by nature. Capital can soon tell, can quickly take your measure; and where capital sometimes goes wrong, as it did in Henry Ford's case—well, Henry had the character and the ideas to beat the banks on his own. The idea of The idea of the Pharmaceutical Society lending part of the cash is good! . . . But even they may not want to start a lame-duck pond, with labour as it is in Great Britain to-day.

Yours truly; JAY MACK.

Free Gifts

SIR,—I agree with Mr. Mills (C. & D., August 12, p. 271) that to give away goods I should otherwise sell is absurd; but should I sell them otherwise? Regarding the offer he mentious of safety-razors, if I were taking it up I should think myself a very poor salesman if I couldn't sell three dozen 11s. 3d. razor, brush and shaving soap lots for 5s. 11d. during, say, a week—that is, I should take £10 13s.; ordinarily I should take, maybe, 30s. in a week on these lines at most. In other words, I take about seven times as much, and what does it matter to me or Mr. Mills upon what the money is spent? I think I am sufficiently well known, in South West London at least, to clear myself of the suspicion of being "inspired." Yours faithfully,

A. THOMAS, Ph.C. Clapham, S.W.4.

SIR,—Mr. Arthur Mills touches the right spot in his ter on giving away goods for nothing (O. & D., August p. 271): there is no sense in retailers utilising their mises and employees in giving away goods which they ght to sell. In the case of a face-cream, there may rhaps be some attraction to a person, who is not a rular user of such toilet-requisites, to purchase a pot greasy cream in order to obtain a gift of vanishing eam to try the two, but in the case of soap there is no ch inducement. Everybody uses more or less soap, the the possible exception of the great unwashed, the footunates who are down and out and have to shift ithout, so that a giving-away scheme is not likely to crease the general sales of soap, but merely to divert, ther temporarily or permanently, a certain amount of ose sales from one manufacturer to another, and as far the retailer is concerned it does not affect his usual trut, only he loses the profit on the extra cake he hould have received cash for. If the makers can afford advertise in this way, then they can afford to recoup the retailer for this loss in return for his services; if ney are not willing to do this, they should have the upon enclosed with the article and do the distribution temselves from headquarters. The only form of givingway advertising which the retailer should lend himself is the distribution of samples, as this might be incive of new business; and in example of this I might oint out Messrs. Gibbs' recent birthday scheme where the purchaser of a shilling tin of dentifrice received a eat case containing several miniatures of their other pecialities, and the retailer not only made a sale but ad the chance of getting further custom.—Yours truly,

## Invoice with Goods

Sir.—As other chemists may be troubled in the same vay as "Business" (C. & D., August 12, p. 271), may offer the suggestion that they should buy a triplicate rder-book and write all their orders? The order and ne copy are torn out of the book, leaving a tissue copy of the order in. Goods can be ticked off on the carbon copy, weights adjusted, and prices of containers added. Dated and signed by the assistant, it is at once a method of clearing the goods away and a check on what happens to them. It is also a check on the traveller and the wholesale house. The Lamson Paragon people supply a good book with a cover.—Yours truly,

Leeds. M. E. Murray.

Sir.—In reply to, "Business" (C. & D., August 12, p. 271), I may say that I have had some experience of the invoice with goods difficulty, only in the wholesale trade. Some years ago I was employed by a wholesale firm which insisted on receiving the invoice either with or at the same time as the goods, and sent out printed slips to that effect with each order form. In the case of goods delivered by hand or van direct from the suppliers, it was easy to enforce the rule, as the package was not taken in without an invoice; but when it came to deliveries by rail or boat, we could not very well refuse to accept the goods, as there would have been the charges for return carriage or demurrage as the case might be, and possible litigation as to who should pay. And a wholesale firm is in a much better position to insist than a retail man, who might be ignored. If, however, a firm dealing in thousands of small lines of sundries and patents can dispatch the goods with invoice on the same day as the order is received, it should not be beyond the capabilities of other wholesalers to send their invoices in fairly promptly; but I am afraid that "Business" will find that his only remedy is to choose those houses which are prompt, and to stick to them.

Yours faithfully,

Businesslike (14/8).

## Overhead Costs

SIR,—From time to time letters appear in your columns from chemists, in which they say that overhead costs are such and such a percentage that certain goods yield less than that percentage of profit, and consequently selling such goods entails loss—that is to say, every time they make a sale they are out of pocket by it. That this is absurd

is obvious to any person who gives the matter a moment's thought. It would, of course, be true if each individual sale meant a corresponding increase in overhead costs, but everyone knows that this is not so. As a matter of fact, most businesses could comfortably add 10 or 20 per cent. to their turnover, without any appreciable addition to their overhead costs, and thus gain a useful increase in their profits. Let me put the matter in a concrete form. Mr. A., in the course of a week, sells one hundred articles at a gross profit of 3d. each, or 25s. in all. The hundred purchasers of these articles come into Mr. A.'s shop, ask for what they want, have it handed to them, and go away contented, possibly carrying with them some other article bought at the same time. Now, these hundred sales practically did not add to Mr. A.'s gas, rent, rates, taxes and wages bill, or to the wear of his premises, so that it is clear that a considerable proportion of the 20s. remains in Mr. A.'s pocket. On the other hand, Mr. B., who refuses to supply the hundred articles asked for, at the end of the week has nothing to show for the hundred customers he might have had, and of these some at least have gone away annoyed, and most have obtained their requirements at a competitor's shop. Is it not obvious that Mr. B., the overhead costs worshipper, is going the right way to earn a reputation for churlishness and not being up to date? He loses profits he might equally well have, and depreciates the value of the goodwill of his business, owing to the small dimensions of his turnover.

COMMONSENSE (8/7).

## The Future of Registered Druggists

SIR,—Your Educational Number I have read with interest. There is one item of news, however, you might have omitted, as it is only "gossip." I refer to the phrase (p. 251), "The conversion of the registered druggist grade into one of dispensing chemist is another proposition emanating from the Belfast chemists." . . . . As a matter of fact this emanated not from the Belfast chemists, but from a few of them met in conclave. . . . The conversion of a druggist into a pharmacist is no easier than the conversion of an unqualified man into a qualified man.—Yours truly,

Belfast. CAVEAT (15/8).

## P.A.T.A. Report

SIR,-It is to be regretted that the annual report of the Proprietary Articles Trade Association shows a de-cline in retail members' subscriptions, but it is perhaps excusable, for as the President pointed out, the more modern pharmacist is not familiar with the terms on which proprietaries were bought and sold when the Association first came into existence. It is true that the Association has done some very good work, but the younger generation sees the unqualified man, the cooperative societies, drug stores, market stalls, street traders, all selling protected lines, cutting a penny or two off the protected prices, and wonders what the P.A.T.A. is doing. The crux of the question is not that the P.A.T.A. is inactive, rather the reverse, but that they have no power to compel traders to observe the m.r.p., and if they had some means of doing so, it is an open question whether such action could not be held to be in restraint of trade. The only method open for them is to stop supplies, but with the number of middlemen who cater for this class of trade, it is impossible to deal with them all. In some warehouses it is only necessary to present a trade card and the cash to obtain goods at wholesale prices, and there is nothing to prevent any street dealer providing himself with a supply of cards, so that the man who determines to cut is sure of obtaining the goods. Some manufacturers have a system of numbering or otherwise marking their products so that they can trace the source of supply, but even then it fails to stop the complaints. The list of retail members published in the Year Book would be an expensive item at £200, but at the same time it was very handy and was almost as good as a directory of pharmacists.—Yours faithfully, WESTERNER (8/7).

## Subscribers' Symposium

For interchange of opinion among "C. & D." readers, and hrief notes on business and practical topics especially new ideas

Will "Frater" (15/8) please communicate his name and address to the Editor?

Payment for Developing and Printing

Scotus (16/8) asks if pharmacists, who do developing and printing for amateurs, make them pay on ordering or on delivery? He gives an instance in which several customers have failed to call for their "finished products" this way. ' this season, resulting in a loss of £2 to the chemist concerned.

## Legal Queries

- J. C. (15/8).—The question of safety limits for Dangerous Drugs Act preparations is dealt with in The Chemist & Druggist Diary, 1922, p. 244.
- W. & R. (15/8).—Known, admitted and approved remedies.—See reply to "T. & C." (C. & D., August 12, p. 271), and also The Chemist and Druggist Diary, 1921, p. 260.
- W. H. R. (14/8) recently sold his business to his manager, the latter to be "responsible for all rents, debts, goods, etc., after May 1." Certain goods were ordered by the manager on April 26, invoiced on April 27, and delivered on May 1. Who is responsible for payment? The manager has also bought the premises where the business is carried on. "W. H. R." was received to take the premises although the manager. where the business is carried on. "W. H. R." was previously tenant of the premises, although the manager resided there. About a year ago the manager had a worn-out tap renewed without the authority of "W. H. R." or the landlord. Who must pay for the tap? [The liability to pay for the goods existed before May 1, so that, if they were ordered by the manager in the ordinary course of business, "W. H. R." is, in our opinion, liable to pay for them. As regards the tap, we consider that the manager, having ordered it upon his own initiative, is bound to pay for it.]

## Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

T. K. B. (10/7).—CHILBLAIN LINIMENT.—The formula for which you inquire is as follows :-

Ol. picis rect	 		100 parts
Ol origani	 		20 parts
Ol. pulegii	 	• • •	10 parts
Tereben.	 	• • •	3 parts
Tr. capsici	 		1 part

Lex (13/7) and S. I. (26/7).—Books for Optical Examination.—See Educational Number (August 12, p. 264).

S. & Co. (2/8).—Herbal smoking mixture.—The following is from "Pharmaceutical Formulas":—

	.,					
	Coltsfoot		 			8 lb.
,	Eyebright		 			1 lb
	Thyme		 			1 lb.
	TT 0					1 lb.
			 		• • • •	
			 ***	• • •		1 lb.
	Lavender-fl	owers				2 lb.
	Rose-petals		 			8 oz.
ii	۲.					

W. R. W. B. (28/7).—(1) COPYING GRAPH.— Gelatin or fine glue ... ... 3iij. ZIV.

Water ... ... Cut the gelatin small and soak overnight, then add :-Glycerin ... 3xx.

Heat gently on a water-bath until dissolved, then pour into a suitable flat box.

(2) We cannot undertake to identify the sample of material, of which the label has been lost.

- W. C. (4/8).—You cannot deodorise ordinary paraffin sufficiently for toilet use.
- J. D. & Co. (3/8).—Iso-Propyl alcohol.—We cannot at present give any further details as to the use of iso-propyl alcohol than those printed in the C. & D., May 13, p. 60, May 27, p. 79, and July 29, p. 159.

Ferment (4/8).—We think you will find that the use in the cough mixture formula of aq. chlorof. '85, in place of aq. dest. will get over the difficulty of fermentation to which you refer.

- S. (4/8).—CLEARING PONDS OF ALG.E.—Copper sulphate in the proportion of one in a million used for destroying aiga in ponds is stated not to be destructive of fish. The method of using the copper sulphate for the purpose is to place the required amount (in large crystals) in a canvas hag, attached to a boat, and drag it through the water until the salt is dissolved.
- S. W. V. (11/8).—INFLUENZA MIXTURE.—The following formula is from the C. & D. Diary, 1904, No. 41:

	0/	·
Sodii salicylat.	• • •	 ziss.
Potas. bicarb.		 зij.
Tr. cinchonæ		 3V.
Aq. chlorof. ad		 Зvj.
ex aq.		

J. D. (11/8).—Particulars regarding the registration of trade-marks are given in the C. & D. Diary, 1922, p. 277.

3ss.

- W. & H. (12/8).—The amount of the rebate allowed on medicinal spirits was given in the C. & D., I., 1922, p. 766.
- $A.\ d.\ N.\ (12/8)$ .—Black spots on white pedigree pigs.

  Any "process" of getting rid of black spots from white pigs is to be regarded with suspicion, as it cannot be an easy matter to remove or dye the pigment of the skin without some change of a destructive nature. Electrolysis may be tried, or hydrogen peroxide may be either applied or injected.
- F. S. (12/8).—RECORDING-INSTRUMENT INK.—For use in recording instruments, where the ink is conveyed by capillary glass syphons, the thinnest possible fluid is necessary. A solution of aniline dye in water (5i. to 3vi.) is generally used.
- H. W. H. (14/8).—(1) PURIFYING SWIMMING BATH.— Chlorine is used in some public swimming baths for the purpose, being added, in the form of a hypochlorite solution, in the proportion of one part of chlorine to 2,000,000 parts of water. The chlorine-content of calx chlorinata is laid down in the British Pharmacopœia.

(2) COLOURING BILLIARD BALLS.—The following process, given in "Pharmaceutical Formulas," is good:

First: Wash the ball by immersing in benzine for a few minutes; take it out, pour some benzine over it, and wipe dry.

Second: Dip it in an acid bath-30 drops of nitromuriate of tin solution to 3 oz. of water. Allow to remain in the bath for a few minutes.

Third: Give it the dye-bath.

The colours used are alcoholic solutions of aniline dyes.

## Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," August 15, 1872 Munificence

We mentioned recently a report that Mr. Holloway, the proprietor of the well-known pills and ointment, was about to endow some charitable institution in a most magnificent manner. To build a hospital might, perhaps, indicate a declining faith in those wonderful remedies which have so often succeeded when all other remdies have failed. It is therefore said to be Mr. Holloway's design to erect, at his own expense, a middle-class asylum at Virginia Water. The asylum will cost from £70,000 to £100,000, and will accommodate two hundred patients. It will be maintained for a year by Mr. Holloway, after which it is expected to be self-supporting, and will be handed over to the management of trustees. We mentioned recently a report that Mr. Holloway, the trustees.

An alteration in the P.A.T.A. List for £10 orders of

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Eserine

Guaiacol Pure

Guaiacol

Carbonate

Hexamine

Homatropine

Hydroquinone

Lithia Salts

Menthol

Methyl Sulphonal

Paraldehyde

Phenacetin

Phenazone

Phenolphthalein

Pilocarpine

Podophyllin

Dogophynn

Potassium -

Sulphoguaiacol

Quinine

Resorcin

Salicine

Salipyrin

Salol

Santonine

Scammony Resin

Sodium Benzoate

Salicylate

Sparteine

Strychnine

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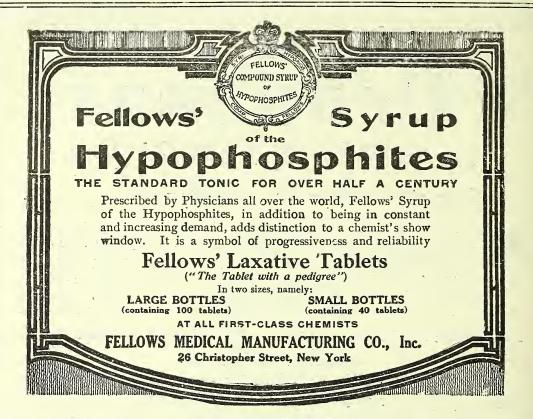
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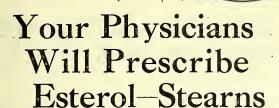
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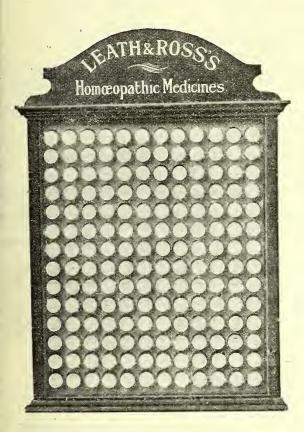
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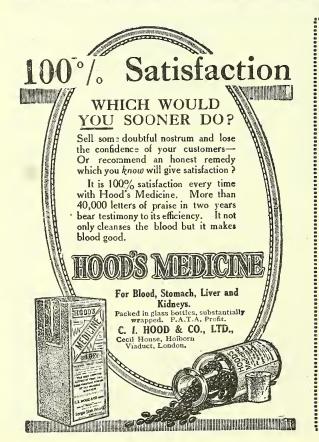
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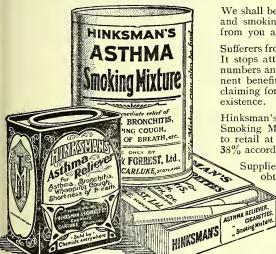
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# THE METHYLATING CO., LTD. for METHYLATED SPIRIT. 38-41 Finsbury Court, Finsbury Pavement, LONDON, E.C.2. Telephone: London Wall 6031. Telegraphic Address: "Methcolim, Phone, London."



## STERNS

New Grade

## PARAFFINIM LIQUIDUM B.P.

S.G. 890

High Viscosity. Non-Congealing

Wholesale Trade Only

STERNS LTD., 80 ROYAL LONDON HOUSE, FINSBURY SQ.

The demand committee Commi



## GUARANTEE SALE OFFER.

To introduce Zomogen without any possible risk to yourself, we undertake to buy back from you any bottles of Zomogen unsold six months after you have ordered them, and to buy them back at the price you paid, without any deduction whatever.

Send us your order to-day, and you will find that Zomogen is one of the best selling and most profitable lines you can handle.

Wholesale price: 45/- per dozen, Retail price: 5/- per bottle.

## Remarkable Success of the New Tonic Food

Zomogen has rapidly proved its exceptional value as a tonic, restorative food for all cases of debility and blood impoverishment.

Experience shows that Zomogen is far more effective than any preparation of metallic iron, because it contains iron in the natural state in which it is present in the red blood corpuscles. In this form it is easily assimilated, and will not irritate the most delicate stomach.

Zomogen produces an immediate and rapid improvement in cases of anæmia, neurasthenia, and the early stages of tuberculosis. It is particularly valuable during convalescence after influenza, pneumonia, or any severe illness.

We would emphasise the fact that Zomogen is British throughout.



Zomogen Food Products, Ltd., 63, York Place, Edinburgh.

Wholesale Distributors: J. C. GAMBLES & Co., 49, Farringdon Street.
London, E.C.4.

Also J. & J. HASLETT, Ltd., North Street, Belfast. MAY, ROBERTS & CO., Ltd., Dublin.

## IMPORTANT TO CHEMISTS WITHOUT LICENCES.

Finest Quality at 16/6 per doz.

PURE LEMON SQUASH

at 16/6 per doz.

**UNFERMENTED** 

Sacramental Wine

Special Quality at 25/- per doz.

QUININE WINE, B.P.

Bottles 21/- doz.; ½-bottles 11/6 doz. Carriage Paid on 3 dozen orders.

B. ROBINSON & Co., Ltd. PENDLETON - MANCHESTER.

Phone: 138 Pendleton. Telegrams:
"Champagne Manchester."



For quick sales with good profit stock - -

## NAT URAL Health Salt

Its popularity is maintained by consistent quality.

NATURAL HEALTH SALT—the original Health Salt of the World—finds a place in hundreds of thousands of homes throughout the country. It is the family favourite and standby for Happy Health for all, and is therefore a sure and steady seller.

If you do not stock "Natural"—send your order now to

WILKINSON & SIMPSON, LTD.

Manufacturing Chemists - Newcastle-upon-Tyne.

## IMPORTANT.

## Natural Mineral Waters.

WE beg to inform the Trade that we are now regularly receiving consignments of Natural Mineral Waters from the Continent and other parts of the World.

We are thus in a position to execute orders for the leading well-known Natural Mineral Waters, as under:—

## VICHY-CELESTINS

AESCULAP
AIX-LES-BAINS
APENTA
APOLLINARIS
CHATEL-GUYON
CARLSBAD
CARLSBAD SPRUDEL SALT
CONDAL
CONTREXEVILLE-PAVILLON
EVIAN-CACHAT
FARRIS
GIESSHUBLER (Mattoni)

HUNYADI JANOS INSALUS KRONENQUELLE LA BOURBOULE LEVICO MONTMIRAIL MONTREUX PELLEGRINO PERRIER PLOMBIERES PLUTO

POLAND
PURGOS
RUBINAT
ST. BOES
ST. GALMIER
SANGEMINI
SELTERS (n stone jugs)
TANSAN
VALS
VILLACABRAS
VITTEL, etc. etc.

OTHER STATE SPRINGS

Prices of the above quoted on application.

Any Natural Mineral Water not in stock, if procurable, can be imported to special order during the Season.

## INGRAM & ROYLE, Ltd.

BANGOR WHARF, 45 BELVEDERE ROAD, LONDON, S.E.I.

Telephone: HOP 4343 (2 ines).

Telegrams: "INGRAM ROYLE, WATLOO, LONDON."

LIVERPOOL: 19 South John Street.

Telephone: BANK 4528.

Telegrams: "CELESTINS LIVERPOOL."

BRISTOL: Bath Bridge.

Telephone: 1113.

Telegrams: "SPRUDEL BRISTOL."



Preferred for its freshness, flavour, and more perfect solubility.

Advertising Material Gratis.

F

Thew, Hooker & Gilbey, Ltd. Buckingham.

HOOKER'S Malted Milk is an ideal line fòr the discriminating Chemist. Its increasing adoption for infant feeding is being steadily fostered by extensive advertising, whilst its general dietetic application also receives due emphasis. And this propaganda is well supported both by the superiority of the preparation and by the advantageous terms upon which it is supplied.



ITAMOGEN sontains the essential Vitamines in an active and coocentrated form. VITAMOGEN is in Vitamines in an active and coocen-trated form, VITAMOGEN is in itself a food of the highest potency, rationally conceotrated according to approved scientific methods. It is rich in organic, i.e. assimi-lable Phosphorus, and the proportion of nutritive coostituents is well halanced to meet the physiological needs of the organism. VITAMOGEN stands alone as a means of supplying the Vitamines—an entirely new food element.

supplying the Vitalines—all entirely new food element.
VITAMOGEN is packed in two sizes, 2/9 and 5/9, ohtainable from all the principal wholesale houses.
Literature on VITAMINES will be sent of application to —Dept. C.

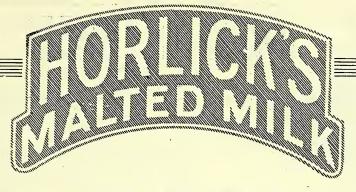
24/26 HOLBORN, LONDON, E.C.

## ATKINSON & BARKER'S PRESERVAT

THE BEST AND SAFEST INFANTS' MEDICINE OF OVER 120 YEARS' STANDING.

Prices and Terms on application to R. BARKER & SON, Ltd. 13 Wesley St., C.-on-M., MANCHESTER.

DOFS POISON.



The Sale of Horlick's Malted Milk is and always has been directed through Chemists, while substitutes and imitations are often exploited through other Trades.

## You may with entire confidence recommend HORLICK'S MALTED MILK to your Customers.

Meat and drink in one—a delicious and sustaining Food-Drink which advantageously replaces tea, coffee & other beverages and is an admirable refresher, suitable for all ages.

It is the safest diet for infants and invalids; being complete in itself and needing no additional milk, it overcomes the difficulties and dangers of a local milk supply

Made in England.

Attractive advertising material for Window Display and Counter Distribution free and carriage paid on application to the Company.

HORLICK'S MALTED MILK CO., SLOUGH, BUCKS., ENGLAND.

Season-1922





GUARANTEED GENUINE

Manufacturers :

BRÖDR. AARSÆTHER A/S, Aalesund, Norway.

LARGEST MANUFACTURERS OF COD LIVER OIL IN NORWAY.

Wholesale only.

In 25-gallon tin-lined barrels

SOLE ACENTS FOR U.K.: ENTHEIL SMITH & CO.

21 Mincing Lane, LONDON, E.C. 3.

Tel. Add.: "FREUDENRUF."

Codes used: ABC, 4th & 5th Edit.; and Private.

Tel: 12513 CENTRAL

## You Cannot Buy Better!

## MALT & COD LIVER OIL

Ask for Samples and Prices.

Also in attractive Containers, with client's own name and address,

JEFFREYS, MILLER & CO., Ltd.

Leyland Mills, WIGAN.

Good!

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Mason's!

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Newball&Mason

Nottingham.

Eggs garages garag



## BRAND'S ESSENCE

of Beef, Mutton or Chicken consists solely of the juice of the finest meats, prepared with the greatest care under the most hygienic conditions.

Essential in the Sick Room.

Sold by all Chemists and Stores.

BRAND & CO., LTD.

Mayfair Works, Vauxhall, LONDON, S.W. 8.



Market your own Infanto' Jood

HAT greater satisfaction can you give your customers and yourself than selling an Infants' Food of established reputa-

tion, artistically packed with a label bearing your own name and address? This is one of the finest advertisements for yourself. By recommending your own food you will, by the nature of its all-round excellence, win the confidence of your customers and secure steady regular sales. You make your own price and your own profit, which, needless to say, is greater than that on "proprietary lines."

## Our complete SELLING SCHEME will interest you. It embraces the following points:—

- 1. The issue of two-colour labels, with own name imprinted, to one Chemist only in each locality.
- 2. Affixing same to containers at inclusive prices.
- 3. The issue of two-colour showcards, 20-in. by 8-in., to match labels.
- 4. The provision of analytical reports and diet charts, with own name imprinted:

The best Malted Food on the Market is manufactured by

## George King & Co

ALBION FOOD MILLS, Dept. "J," 1 & 2 SYCAMORE STREET, LONDON, E.C. 1

Telephone: 3383.

Telegrams: "Foodokings, Barb, London,"

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## SURGICAL OLED COTTONS SURGICAL SILKS

EDWARD MACBEAN & Co., Ltd.

Manufacturers of Oil-proofed and Rubber-proofed Cloths of every description.

London Office—6 & 8 Lime Street Square, E.C.3. 123-125 Howard Street GLASGOW.

Telephones: "Diamond, Glasgow." 83:
"Stormproof, Led, London." 19
Codes: Lieber's 5-Letter, ABC (5th Edition), and Marconi. 8387 Central.

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## GOODS WELL ADVERTISED ARE HALF SOLD.

There are two reasons for the enormous sales of "Fairy Dyes." One is inside the packet—the goodness of the Dyes—their reliability and their low cost. The other is that we spare no effort or expense to advertise them well.

expense to advertise them well.

(I) In every leading Ladies' Weekly and Monthly throughout Great Britain, clever "copy" and striking illustrations are convincing the public of the superiority and economy of using "Fairy Dyes" and no others

C. Do you want to increase your sales, your repeat orders, your turnover, with a dye that is easy to sell because it is so simple and so easy to use? There is a choice of twenty-two shades suitable for cottons, woollens, linens or silk, and already "Fairy Dyes are recognised to be most reliable and economical,

I. Send us your order now. It is too late when you learn that your competitor has been doing great business with "Fairy Dyes," for the demand for "Fairies" is already very great and growing, and the man who has them in stock is the man who scores. The selling price is 2d, per packet and the public want them from you.

FAIRY DYES.

Regd. Office: 37/41 GLASSFORD STREET, GLASGOW.

Telegrams: "Fairyland Glasgow." Phone: 2423 Bell. LONDON DEPOT: 292 Upper Street, ISLINGTON, N.1.

# Companion Lines



# SOOTHERS

Made of purest India Rubber.

No taste or Smell.

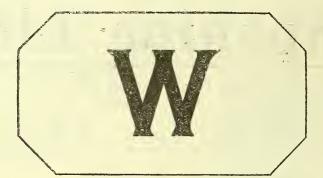
Practically indestructible. The most perfectly made all-rubber soother ever offered for sale.

# 'SIMPLIC' TEATS

Made of purest India Rubber. In 8 different patterns. Each in separate carton. IN BOXES OF 3 DOZEN.

Ask your Wholesaler for "Simplic" REGD.

Regd. Trade



Mark, No. 26866.

# BEST FEEDER



Made in Neutral Glass of High Thermal Endurance, with CHEMIST'S NAME AND ADDRESS and the graduations in

# SANDBLASTED LABEL

of excellent design and execution.

No particles of sour milk or impurity can lodge inside the Feeder as the interior is absolutely smooth.



Best

### BEST FOR THE BABY

who has it, because it is the most hygienic.

# BEST

#### FOR THE MOTHER

who buys it, because it is the most easily cleansed and is not liable to crack with hot liquids.

## BEST

#### FOR THE CHEMIST

who sells it, because it bears his name and is a constant advertiser of his business in the family circle.

In one gross lots and upwards through your Druggists' Sundriesman.

WOOD BROTHERS GLASS COMPANY, LTD., BARNSLEY, ENGLAND.

Established 1828.

# AND DRUGGIST THE CHEMI

42 CANNON ST. LONDON E.C. 4

**AUGUST 19, 1922** 

This Supplement is inserted in every copy of The Chemist & Druggist.

### CHEMIST AND DRUGGIST SUPPLEMENT

### REVISED ADVERTISEMENT TARIFF.

Businesses Wanted and for Disposal, Premises to Let, Goods and Shopfittings for Sale, and Agencies—6/- for 50 words; every additional 10 words or

SITUATIONS OPEN-6/- for 40 words; every additional 10 words or less, 6d. SITUATIONS WANTED-2/- for 18 words; every addi-

tional 10 words or less, 6d.

Legal Notices, Tenders, Auctions, and all specially-spaced announcements, 1/3 per nonpareil line (12 lines=1 inch single column).

Miscellaneous (Wholesalers') Section for odd and second-hand lots—10/- for 60 words; 1/- for every additional 10 words or less.

EXCHANGE COLUMN (for Retailers, etc.)—Twopence per word minimum 2/4.

per word, minimum 2/-

#### Box Number.

each case replies may be addressed to a registered number or nom-de-plume, c/o this Office, at a charge of I/- extra for each advertisement. Payment,

Il Advertisements are prepaid, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

THE CHEMIST AND DRUGGIST, 42 Cannon Street, LONDON, E.C. 4. tral 3617 (3 lines). Telegrams: "Chemicus, Cannon, London," (2 words).

Telephone: Central 3617 (3 lines).

ARLIER CLOSING FOR PRESS. Will advertisers please note that until further notice it will be necessary that Advertisements Will advertisers please note that until further

intended for the Supplement must FIRST POST THURSDAY MORNING.

### CHEMISTS' TRANSFERS. Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No.; City 2283.

#### May be consulted at their Offices on matters of SALE, PURCHASE and VALUATION.

way be consulted at their Offices on matte 1—LONDON, N.W.—For immediate disposal, good-class Retail and Dispensing Business; returning about £3,000 per annum; et profit, £700; single-fronted shop, well fitted and stocked; onvenient house, private entrance; held on lease at moderate ental; price £2,350 cash.

2.—NORTH LONDON (Main Thoroughfare).—Ready money tetail and Dispensing Business in prominent position; returns wer £5,000 per ann. under management, at good prices; new cass will be granted; price £3,500; further details on receipt of anker's reference.

case will be granted; price £3,500; further details on receipt of ranker's reference.

3.—BROMPTON ROAD (Near).—Good-class Retail and Dispensing Business; returns about £3,500 per annum, with scope or considerable increase, under energetic management; full prices are obtained; well-fitted, single-fronted shop, fully tocked; held on lease. Price £2,750.

4.—LONDON W. (Suburban).—Family Retail and Dispensing Business, established 75 years; returns, present rate, about £1,500 per annum; gross profit 40 per cent.; single-fronted shop; good working stock; held on lease; rent \*£60, sublet £91. Price about £950.

5.—WEST END.—Retail and Dispensing Business; modern, well-fitted shop, fully stocked; returns exceed £6,000 per annum; with scope for considerable increase under personal supervision; new lease will be granted at rental to be agreed. To effect a speedy transfer the sum of £2,000 would probably be accepted.

ccepted.
6.—MIDDLESEX

accepted.

6.—MIDDLESEX (Few Miles Out).—Good-class Suburban Business, Retail and Dispensing; returns last year, £2,200; at full prices; double-fronted shop, fitted in mahogany and well stocked; held on lease at net rental of £55 per annum. Price to be arranged equitably.

7.—LONDON, S.W.—Manager, with view to succession within the next twelve months, for Cash Retail Business, with N.H.I. Dispensing; returns average £2,600 per ann., with scope for increase; net profit, about £650; £21 £48; held on long lease; the invostment would require about £1,800.

8.—SUFFOLK (Market Town).—General Retail and Dispensing Business, with Kodak Agency; returns, present rate, exceed £2,600 per annum; net profit, £600; double-fronted shop, well fitted, and fully stocked; long lease; further details application.

on application.

9.—SOUTH COAST (Popular Health Resort).—Cash Drug Stores, with Stationery, Confectionery, and Tobacco; returns, about £70 per week, more in season; there are two shops, with living accommodation; vendor owns the property, and would sell same or grant leases; to effect a speedy transfer a moderate sum would be accepted for the Businesses; suit unqualified.

10.—NORFOLK.—Unopposed Country Retail Business; very old-established; returns, present rate, £1,800 per annum, at good prices; single-fronted shop; good house, in excellent repair; private entrance, and large garden; 21 years' lease, at moderate rental; price about £1,200.

11.—SOUTH WALES.—Old-established Business, with Wine

at moderate rental; price about £1,200.

11.—SOUTH WALES.—Old-established Business, with Wine and Spirit Licence; returns last year, £3,220, at good prices; house contains 10 large rooms, private entrance; 17 years' lease; no opposition; price to be arranged.

12.—WEYMOUTH (Near).—General Retail and Dispensing Business, with Optics; returns last year, £2,530; net profit, about £5 per cent; the shop is well fitted and stocked; there is ample living accommodation; terms, goodwill £250, stock and fixtures at valuation; freehold, £2,000; part payment entertained.

and fixtures at valuation; freehold, £2,000; pare positions entertained.

13.—LONDON, W.—Old-established Retail and Dispensing Business; net profit in 1921 was £465; the upper part of the premises is sublet, leaving the rent of the shop at £40 per annum; long lease will be granted. Terms, valuation of stock and fixtures and sum for lease.

14.—CITY (Near Busy Station).—Very old-established Business, situate in one of the main thoroughfares; gross receipts about £6,500, increasing; the premises are held on long lease. Further details on application.

### UATION

Messrs. 0. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties and make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C. 4

# OE&FISH

Valuers and Transfer Agents, 35 Jewry Street, Fenchurch Street, E.C.3.

Telephone-1809 CENTRAL.

- 1. SOUTH EAST COAST (Popular Seaside Town).—Good class business, with Kodak Agency, in very best position, producing a clear net profit of £1,500 yearly. Modern fitted pharmacy, excellent stock. Price £5,500. Part could remain, references required.
- 2. BLACKPOOL.—First-class Chemist's business, in rapidly improving position, very profitable. Returns £3,000. Kodak agency attached, fully stocked. Splendid fittings. Price £2,700.
- 3. SURREY (Riverside Resort).—Good-class light family retail, with photographic. Returns last year over £2,000. Commanding corner pharmacy, well stocked, splendid house. Price £1,500.
- 4. LONDON (ESSEX SUBURB).—Profitable cash retail and prescribing business. Returns between £900 and £1,000. Plenty of scope, low rent, part house available. Price about £450. Worth attention.
- 5. DENTAL PRACTICE, WEST END.—High-class practice, for immediate disposal through ill-health. Returns £4,000 to £5,000. Unique position. Price \$1,500 for quick sale, or partner with £1,000 entertained.

#### STOCKTAKING VALUATIONS.

We are now booking dates for August and September, and invite early applications to save disappointment. Terms sent on application.

ESTABLISHED 1870.

## **The Association of Mnfg. Chemists**

Head Offices—26-28 Kimberley House, Holborn Viaduct, London, E.C. 1. (and at 2 Bixteth Street, Liverpool.)

> PARKIN S. BOOTH, Accountant and Valuer. PHONE: CITY 6942-43.

WE HAVE THE FOLLOWING BUSINESSES FOR DISPOSAL.

1.—WAKEFIELD.—Weil fixtured Chemist's Shop; N.H.I.; splendid house accommodation; well populated district; no opposition; rent 30s, per week and rates; turnover over £1,000 per annum; splendid opportunity for smart man; further particulars on application.

annum; splendid opportunity for smart man; intriner particulars on application.

2.—LONDON, W.—Retail Chemist and Drnggist's Business; large double-fronted shop, well fitted; scope for energetic man; purchase must include freehold premises; three floors above shop, all let off, producing £6 a week; two workshops at rear; price, all at, £3,000; fullest particulars on application.

3.—WOOLWICH.—Drug and Herbal Stores; in busy thoroughfare; premises held on weekly tenancy; lease might be granted; premises consist of shop, parlonr, and large room above; scullery and shed at rear; long garden; business established 10 years; under qualified proprietorship business could be greatly improved; good scope for Dentistry, Optics, and N.H.I.; price about £800; fullest particulars on application.

4.—Small Wholesale Mannfacturing Chemist Business for disposal; owners of several registered trade-marks.

5.—Proprietary Article for Sale; business has good connection among Chemists; full particulars on application.

6.—PORTSMOUTH.—Established over 20 years; Retail Pharmacy; well fitted and stocked premises, held on lease, 6 years to run, with 14 years option; rent, £40; dwelling accommodation; fullest particulars on application.

Stocktaking and Valuations for all purposes undertaken upon

Stocktaking and Valuations for all purposes undertaken upon Reasonable Terms.

### & General Business Agents

13 Buckingham Street, Strand, W.C.2

The Chemists' Transfer Department

HIGHBURY.-Turnover, £2,500; well-fitted shop with good saleable stock, together with goodwill and fix-tures, £1,700. Balance-sheet for ten years shown. MILLWALL.—Turnover about £2,000; with house to be had on lease. Price, including fixtures, £800. Stock at valuation.

WHITECHAPEL.—Turnover, £25 per week, plus N.H.I. Business could be worked up considerably; price £800.

Income Tax Adjustments, Accountancy, etc., by arrangement. 

### BAKER & ROBERTS

P. C. Baker, Ph.C., M.P.S. W. Rooke Roberts, M.P.S., F.S.M.C. 174 VICTORIA ST., S.W. 1. Tel.: VICTORIA 27.

Valuers for Sale or Purchase. Income Tax, Probate, etc.

Personal attention, no publicity, please write for moderate terms.

Recommended by The British Drug Houses, Messrs. Meggeson, Ltd., Messrs. Barclay & Sons, Ltd., and many other leading Wholesale Houses.

#### ERNEST **GEORGE**

PLEASE BOOK EARLY FOR -

VALUATIONS SEPTEMBER TO DECEMBER

### BUSINESSES WANTED

138, Lichfield Street, Walsall 5. Oswald Street, Glasgow

#### SALES BY AUCTION.

"THE PHARMACY," MARDEN, KENT.—Detached Shop a Dwelling House, 4 bed, 2 sitting rooms, kitchen, &c., w garage and pleasant garden; gas and water laid on; m drainage. To be Sold by Auction at Maidstone (nuless previous disposed of privately), together with the goodwill of the B ness, on Thursday, August 24, at 3.15 p.m. Particulars of E Parker, Auctioneer, Maidstone.

desire particularly to draw the attention of Colonial a Foreign Subscribers to the fact that in cases where the require partners, agents or assistants, or wish to sell the businesses, an Advertisement in this Supplement, placed every copy of "The Chemist and Druggist," should be readlest means of helping them to attain their object. I tariff for such announcements 's given under the appropriate addings in the Supplement. Instructions and remittancan be sent to us direct or through the advertise correspondents in this country.

#### BUSINESSES WANTED.

or 50 words or less; 6d. for every additional 10 words or less, prepaid.

ADVERTISER may if preferred have replies addressed to this ice, and forwarded on payment of an additional charge of 1/-.

ELAND.—Wanted, small mixed Business in Ulster by Jannary; capital about £700 down, balance, if any, by ngement; partnership in larger business or managership to early succession. Advertiser is married, energetic, with class Dublin, London, Paris experience; details, in conce, lease, house, shop, rent, class of trade, gross receipts, profit. L.P.S.I., P.C.B., 50/4, Office of this Paper.

GENUINE Chemist's Business; turnover at least £4,000 per annum; must bear strictest investigation; Midlands erred, with Wholesale attached not objected to; one to suit men; all replies treated with strictest confidence. Enterprise, 7, Office of this Paper.

RUG STORES, high-class Cash Business, with residence, garden preferred; good neighbourhood, West-End or Outer don or Southern Counties, where opportunity exists to add pensing; minimum net profit £350. Details, house, shop, se, value of stock, amount and character of turnover, net fit, in confidence. "Unqualified," 50/400, Office of this per.

ENUINE Business required; must bear every investigation; neglected one not objected to if scope for increase; South ist preferred, but not essential; replies treated in confidence; h available. "Barry," 30/4, Office of this Paper.

ENUINE Business wanted, in busy thoroughfare, London preferred, but not essential; all replies treated in strictest fidence; banker's reference given. "Chalk," 27/4, Office of s Paper.

ENUINE Business wanted, returning £20 to £40 per week or more, on the coast or inland; neglected business not jected to if in good position. Full particulars to "Chemist," idge House, Pilton, Barnstaple, N. Devon.

DHARMACIST, with extensive manufacturing and commercial experience, requires established business or considerable terest in same; London Manufacturing Wholesale or Mail der preferred; certified accounts over period essential; capital immediate command; confidence respected. 32/5, Office of is Paper.

OUND Retail Business wanted, yielding £400-£500 net profit; London suburbs or home county; living-accommodation sential; cash available. "Z.," 31/24, Office of this Paper.

WANTED, Drug Store or neglected Chemist Business, with living accommodation preferred, but not essential; town or untry; please state full particulars of rental, position, present imover, purchase price, size of window, &c., in confidence. 9/36, Office of this Paper.

#### FOR SALE.

OMPLETE equipment of Dental, Surgery and Workshop, Pump Chair, Engine, Forceps, etc., Vulcaniser, Lathe, ools, and accessories; relinquishing dentistry; everything in orking order; low price for lot to clear; open to offer. efferson, Dental Surgery, 6, Russell Place, Woolwich, opposite ursenal Station.

COMPLETE Fittings for chemist's shop; two Nest Drawers, six Counter Cases, Counter Scales, etc. Rigby, 31, St. ames Street, Liverpool.

#### PARTNERSHIPS.

A PHARMACIST wanted as Working Partner in old-estable lished Business; some capital necessary; share of profit to be partly based on increased turnover; excellent opportunity for Optician and Photographer. Apply, 33/31, Office of this Paper.

CENTLEMAN, 40 years of age, with wide and successful experience of all branches of the trade, Wholesale and Retail. desires Partnership or amalgamation with a progressive and astablished firm; any branch of the trade considered; North of England preferred; capital up to £10,000 can be introduced. 31/21, Office of this Paper.

#### AGENCIES.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A USTRALASIA.—Gentleman, sailing November, qualified, is desirous of representing first-class houses in all branches. Lines entertained: Agricultural, Heavy Chemical, Veterinary, Photographics, Fine Chemicals, Dyes, Sundries, Snrgical Goods, Chemical Glassware. References given and required. Interview if possible. Any business inquiry invited. "Salesman," 29/35, Office of this Paper.

A DVERTISER, with City Office and Warehouse, 25 years' experience wholesale drug trade, home and export, already calling on wholesale druggists and shippers on own account in drugs, spices, gums and waxes, is prepared to represent house of repute in lines not clashing, in London and provinces, on commission and expenses basis. Reply, "P.C.B." 51/17, Office of this Paper.

FIRM recommends thoroughly reliable, energetic man, with good connection in Midlands and South Midlands, with opening for one or two first-class lines. Reply "H.," 24/10, Office of this Paper.

SALESMAN, with initiative and high sales record, calling regularly upon sound connection S.W. England (own car), invites inquiries from really first-class Proprietary or similar house desiring keen service to retain and augment present sales on a commission basis; experienced in handling bonus or especial selling schemes. 28/11, Office of this Paper.

WELL-KNOWN Yorkshire firm with qualified chemists' travellers, covering Lancashire and Yorkshire, desire additional Agency, on part salary and commission basis, or would act as Buying Agents for well-known lines; motors for travelling and delivery. 31/210, Office of this Paper.

W HOLESALE Buying Agents required for wonderful selling past 15 years; sole agencies considered to live wholesale firms who would make a leading speciality. 32/200, Office of this Paper.

#### BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BIRMINGHAM.—A Limited Company manufacturing high-class toilet requisites from exclusive formulas, has registered Trade Mark, stock of choicely packed products and commodious premises on lease at low rental, but is deficient in selling organisation and capital. The directors will entertain offers to purchase business outright at cost, or an incoming director with established connection; fullest investigation. 28/37, Office of this Paper.

HOME COUNTIES.—Genuine Chemist's Business; vendor leaving the trade; low rent; lease 12 years; good prices; no multiple chop near; Kodak agency; N.H.I.; great scope for good Prescriber; 6-roomed house, garden, vacant possession. Price £1,275. Apply. 33/24, Office of this Paper.

LANCASHIRE.—Colliery district; old established; in present hands 33 years; good house and stock rooms attached; rent £90; average turnover £3,200, net profits good; present owner retiring; thoroughly genuine; Optics and Wine Licence attached; price asked £2,250. Further information on application. 10/307, Office of this Paper.

MANCHESTER SUBURB.—Chorlton-cum-Hardy.— Genuine progressive Business for Sale, owing to ill-health; turnover last year £2,000; rent £50 per year; well stocked and fitted; Kodak, Ucal, and "His Master's Voice" Agencies; price about £1,250. Auger, 121, Manchester Road, Chorlton-cum-Hardy.

MIDLANDS.—Business, recently opened in commanding position, shopping centre of crowded district; already shows weekly net profit over £5, easily doubled this year; N.H.I. increasing by 50 per month; scope for Photography and Optics; fortune for energetic man; newly fitted and well stocked; long lease; good reason for disposing; cash price £680. "Scope," 32/37, Office of this Paper.

NORTH OF ENGLAND.—A well-established gennine Business for sale, along with honse and shop, in splendid agricultural district; best position in town; returns average £1,700 (without Photographic); further particulars on application; only genuine buyers entertained; price required for the whole lot about £3,000. Write 30/9, Office of this Paper.

YORKSHIRE, West Riding City.—Working-class ready-money Retail Business, main road, double-fronted shop, living accommodation; rent £55; lease arranged; sales last three years £2,100, £2,500, £2,060 per annum; N.H.I. scripts average 440 per month; price £950 cash. Apply, 30/10, Office of this Paper.

YORKS., WEST RIDING—Large City old-established Drng Stores; thickly populated working-class district; splendid opening qualified man; average takings 1920-1921. £17; unique position; no opposition; well stocked; nicely fitted; electric light; low rent; living accommodation; valuation, stock and fittings to be agreed equitably. Apply "J. S.," 505, Manchester Road, Sheffield.

DRUG Store, Islington; no near opposition; suit young qualified N.H.I., wanted in district; well stocked; rent 13s. 1d.; ill-health cause of sale; immediate possession; price all at £250 or near. Apply, 21, Collier Street, King's Cross.

FOR Sale, Business of Medical Botanist in the centre of Sheffield; main road; good position; valuation, which includes good stock of chemists' sundries, electric light and interior fitments by good cabinet makers, £750; established 40 years; vacant possession of large house attached. A. W. Franks, 102, Devonshire Street, Sheffield.

FOR Sale (accept valuation), useful, well-assorted Stock, etc., of Chemist and Druggist's Business (including N.H.I.), being carried on in large mining district; reasonable rent; scope for development; splendid opportunity for Qualified Chemist; health reason for disposal. Apply, 32/16, Office of this Paper.

MIXED Business, Drugs and Hardware; suit unqualified man; returns about £800; stock and fixtures £400; a snip. 31/10, Office of this Paper.

OWING to death of proprietor, Pharmacy Business and premises for Sale; shop, good house, sheds and land, together with tenanted house adjoining; no opposition; growing place; lease 999; tnrnover about £1,600 last 12 months; particulars on application; future prospect for great development. Apply Mrs. Chester, 18, Station Road, Ainsdale, near Southport.

#### SITUATIONS OPEN,

#### [HOME.]

#### RETAIL,

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A SHBOURNE, DERBYSHIRE.—Unqualified Assistant wanted for mixed country Retail. State salary required, and give usual particulars. Plant, Chemist.

BROCKENHURST, HANTS.—Junior Assistant with knowledge of Photography. Usual particulars to Martin, chemist, Brockenhurst.

CITY.—Qualified Senior, high-class London experience preferred. State full particulars, salary, &c., to P.C.B. 50/20, Office of this Paper.

CLIFTON, BRISTOL.—Junior wanted for Dispensing, mid. September. Apply, stating age, experience and salary required, and send references, to Giles, Schacht & Co.

DEVONSHIRE.—Competent Assistant, about one month, from 28th; knowledge of Photography; P. & D.; short honrs; no Sunday or late duty. Please give recent references, experience, salary (outdoors) in first letter. Phillips, F.S.M.C., Chemist, Axminster.

EXETER.—Middle September. Competent Assistant; good Dispenser, Salesman, and Window-dresser; thorough knowledge of Photo Apparatus essential; permanency. Particulars of age, height, and experience, with references and salary asked, with recent photo, to Hinton Lake & Son, Ltd., 41, High Street, Exeter.

LANCASHIRE.—Qualified Manager wanted; outdoors (single-handed most of time); mixed Retail, N.H.I.; working-class district; good Prescriber, Window-dresser; state salary, references; distant applicants enclose photograph and return envelope. Apply letter only, Taylor, Chemist, 204, Bolton Road, Blackburn.

LINCOLNSHIRE.—Wanted, at once, qualified Chemist, cour business; single; live in; stating age, experience, and sal required. 33/33, Office of this Paper.

LONDON, N.—Youth wanted as Improver. Apply, giving particulars as to height, age, experience, salary requiphotograph if possible, which will be returned, 31/40, Office this Paper.

LONDON, S.W.—Unqualified Assistant for September reliable Dispenser with Counter and Photographic errience. Reply, by letter, giving full particulars, age, experie salary required, outdoors, to A. T. Gray, 5, High Street, Bar S.W.13.

L ONDON, W.—Assistant, qualified, for good-class retail dispensing business; reliable Dispenser and good Coumman. Apply, giving full particulars, age, experience, and sa required, by letter only, G. W. Gray, 194 Holland Park Avel Kensington, W.11.

LONDON, S.W.—In a week, required live nnqualified man qualified, at moderate salary in either case; thorous conversant with London working-class trade; to manage develop small Drug Store; preference single man about commission on returns, increase to right man. Salary, nences, etc., now to "M.P.S.," 53, Coldharbour Lane, 8.E.5.

MANCHESTER DISTRICT.—Joint Manager required General Chemists, including Insurance Dispensing; efull details of career, experience, also salary required. 3 Office of this Paper.

MONMOUTH.—Wanted, an Unqualified Junior Assis (male), for good class business; very little Panel dispens Apply, stating full particulars as to experience, salary, &c Evans, M.P.S., Chemist.

NEWPORT, MON.—Assistant (male) wanted, qualified unqualified; tactful Counterman, reliable Dispenser, knowledge of Photographic Business. Badgett, Cher Clarence Place.

NORWICH.—Unqualified Assistant; first-class experience; brisk Counterman, Prescriber; age 25 to 40; Eastern C ties man preferred; must have undeniable references; single preferably. Apply by letter, giving every particular, 33/7, C of this Paper.

SOMERSET.—Unqualified Assistant, about 30, with experience Counter Work, Dispensing and Photography; manency. Full particulars in first letter to 34/3, Office of Paper.

TOTNES, S. DEVON.—Wanted, a Holiday Assistant for t weeks commencing September 18 for light Retail Dispen and Photographic Business. W. Chaplin Bennett, M.P.S., Fore Street, Totnes.

WOKING.—Assistant wanted in a good-class Dispensing nees; accurate Dispenser and good Window-dresser, doors. Apply, stating salary required, refs., etc., to A. I d Davies, Chemist, Woking.

A JUNIOR Assistant for the Dispensing Counter require September 3. State age, salary, experience, and enphotograph to T. O. Barlow, 2, Palmerston Road, Southsea

A SSISTANT (Junior) required for Dispensing and Cour Work, Stock, and Window-dressing in high-class store; dappearance; short hours; no Sunday duties. Full particulars of photograph to 10/311, Office of this Paper.

A T once.—Wanted, young qualified Chemist; must have d all-round experience; height not essential; only hard wo who can push business need apply to "Rex," 33/19, Offic this Paper.

BRANCH Manager wanted for good-class Photographic, escribing, and Retail business. State age, references, dusual particulars, 34/2, Office of this Paper.

DISPENSER, qualified, wanted with Clerical duties in the desirable; and Sunday duty; knowledge of Photogry desirable; salary, £180 per annum. Apply, stating qualcations, age, and whether matried or single, to the Me 1 Superintendent, Hill End Mental Hospital, St. Albane.

FOR Merthyr Tydvil, immediately.—Manager, middle aged cferred. State usual particulars first letter, or call. C, c/o Roberts & Co., 9, College Road, Blundellsands, Lancs.

PIRST Salesman, Retail Perfumery and Toilet Products; to be well educated gentleman between 30 and 40 year age, good appearance and address, tall, and accustome interviewing best class of customers; good salary and perency. Apply, 10/310, Office of this Paper.

HOLIDAY ASSISTANT.—A Junior wanted for two weel state large, and the state are, and the state are the s

THOROUGHLY competent all-round Assistant for buay a, Apply, by letter only, Snow, Pharmacist, 10, Gt. Elm de Bromley, Kent.

JGUST 19, 1922

VIOR required at once, not over 25, for good class Dispensing country business; state age, experience, salary required cors), enclosing references; applications not answered in days kindly declined. Harrison, Chemist, Grayshott, Hind-Surrey.

VIOR Assistant, comfortable indoor berth; must have had good Dispensing Retail experience; applicants please state height, when at liberty, salary, and photo, &c. Thresh, macist, Buxton, Derby.

VIOR Assistant, of good appearance and address, required September 4; Dispensing experience essential; state full culars as to age, salary required (outdoor), references, in letter. H. Clifford Prince, 22a, Musters Road, West Bridg-Nottingham.

NIOR, good all-round experience. State age, when disengaged, salary required (outdoors), photograph and refers, to Oliver & Crick, Maidstone, Kent.

CUM.—September 1-16 inclusive; qualified; experienced and reliable Dispenser, for doctor's work. Full particulars. 27, Linwood Road, Bournemouth.

ALE Assistant, must be quick and accurate Dispenser, for N.H.I. work and Counter. Apply, Wm. Fox & Sons, Ltd., 111, Bethnal Green Road, E.2.

NAGER, qualified, for branch (Holborn); must be used to quick cash business and capable of Window-dressing, etc., I. Dispensing. Apply, full particulars in first letter, stating y, etc., and photograph if possible, Bewells', Ltd., 19-21, dd Street, N. 1.

RT-TIME Junior Assistant wanted, evenings and Saturday atternoons; must have Dispensing experience and good refertwo full-time Assistants kept. Apply, stating age, height, rence and salary required, "C. B.," 20, New Street, Dorset re, N.W. 1.

JALIFIED man, single, of good general experience and of gentlemanly appearance, required for new business as ager; please state full particulars, and enclose photo, if ble. Kent, 30/32, Office of this Paper.

JALIFIED Locum wanted for month September. Full particulars to W. T. Hicks & Co., Chemists, 28, Duke Street, iff.

JALIFIED Chemist wanted; one used to N.H.I. Dispensing. Please state experience, references, and salary required to J.B., "51/12, Office of this Paper.

JALIFIED Assistant wanted for good-class light Retail and Dispensing Business; competent Dispenser and of good exnce. Apply, with all particulars, to J. H. Scott, Pharmaceu-Chemist, 110, High Street, Ilfracombe.

ALIFIED.—Wanted, Chemist with £50 to invest and evenings or part time to spare, to assist in opening small busicocupier is purchasing freehold and has outside employable, Apply, "K.," 32, North Street, S.W. 4.

JALIFIED Assistant of good appearance and address (for end of September); permanency; good Salesman, reliable enser, able to take and finish photograph work, Windower. Full particulars in first letter, with photograph if pos-, 32/15, Office of this Paper.

LIABLE qualified Locum wanted for period September 9 to 23 inclusive; elderly gentleman would do as cover. 18, etc., to R. Tomlinson, Peel House Pharmacy, Widnes.

VQUALIFIED Assistant required (London); first-class experience; good Counterman, reliable Dispenser, knowledge of lography essential. Apply by letter, giving full particulars, 0/312, Office of this Paper.

VQUALIFIED Assistant with Optical Diploma required for a good-class Business, situated in the Midlands; splendid ing for the right man. Apply, 33/250, Office of this Paper.

VQUALIFIED Assistant; good Dispenser, Window-dresser, and possessing knowledge of Photography; brisk business; sanency for energetic and capable man; Midlands. Apply 15, Office of this Paper.

ANTED, qualified or unqualified Junior, N.H.I., quick cash and Photography (good knowledge essential), Manchester ict. Apply, giving full particulars as to age, salary required, references, &c., to 31/14, Office of this Paper.

ANTED, about September 1, young unqualified Assistant, with good knowledge of Dispensing, Counter Work and ography; give full particulars as to age, height, experience, y (outdoors); must have good references. Apply, W. F. 41, London Road, N. Lowestoft.

#### WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

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I NTELLIGENT Assistant as Junior Fitter in West-End Surgical Appliance House, of good address and well recommended. Apply, giving experience, nature and duration, salary required, and when disengaged, to 10/303, Office of this Paper.

OLD-ESTABLISHED House, manufacturing highest quality malt extract, requires Commission Representatives, with good connection Retail and Wholesale Chemists, to sell packed extract and malt and oil in following counties: Northampton, Leicester, Bucks, Oxford, Kent, Sussex, Hants, Wilts, Somerset. Every encouragement offered good men, and good sample range. Write, giving particulars, to 9/279, Office of this Paper.

MANUFACTURING Chemists and wholesale Drug Firm (Ireland) extensively engaged in home and export trade require capable and experienced General Manager to take full control of warehouse, manufacturing laboratories, packed goods and export departments. Must have experience of buying, raw and finished materials, on best terms, and have keen knowledge of best and cheapest sources of supplies, home and foreign. Permanent position, good remnneration and commission, with progressive incentives for indicionsly directed activities. Replles, in strictest confidence, "Corgagh," 9/274, Office of this Paper.

 $R^{\rm EPRESENTATIVES}$  wanted for all parts of England to push good substitute for Gum Tragacanth; commission. Apply 24/37, Office of this Paper.

REPRESENTATIVES required for following territories: Scotland, Midlands, Northern Counties, West Conntry, and Sonth Wales. Applicants must be capable of holding and extending existing connections with best class Chemists; retail experience an advantage. 29/39, Office of this Paper.

PEPRESENTATIVES (two) required by enterprising Yorkshire firm, for London and South-Eastern Counties, and Midland and South-Western Counties, to further the sale of well-estell-lished proprietary line; unique opportunity for proved specialty Salesman (none others need apply); connection with Chemiste desired (not essential); territory to be worked by car; samples light; one Salesman in our employ has carned £600 to £300 per annum clear during the last 12 years; Guarantee Society bond required. State age and full particulars, in strict confidence. Apply, 32/2, Office of this Paper.

SALESMAN wanted for Birmingham and district and Stafford; must be a thoroughly live man, used to calling on Chemists, and able to introduce a new line which is being extensively advertised. Full particulars to 10/304, Office of this Paper.

SPONGES.—Smart Representatives required, on commission, to sell Sponges for large firm of importers in London and Provinces; must have good connections and know trade well; state references, qualifications, experience, &c. "Importers," 10/302, Office of this Paper.

TRAVELLER, with sound personal connection, to call on Chemists and West-End Stores with Powder Pnffs and Toilet articles; satisfactory terms arranged; replies treated confidentially. Vernon Powell, Ltd., 7, Watling Street, E.C.4.

WANTED, a man thoroughly experienced in the manufacture of toilet preparations, tooth pastes, &c., with ideas, and able to introduce new selling lines; state age, salary required, and fullest particulars of experience. 10/308, Office of this Paper.

WANTED, Travellers calling on Chemists to offer a first-class Martin Drug Co., Ltd., 106, Aldborough Road, Seven Kings, Hiford.

WANTED, educated capable woman to undertake estimation of alcohol in spirituous liquids for Exclse purposes; age over 21; wages 40s. per week. Apply, 10/299, Office of this Paper.

WET Counter Hand required at once. State experience, age and wages required. P.C.B., 51/21, Office of this Paper.

#### [Colonial, Indian and Foreign.]

INDIA AND CEYLON.—Wholesale Druggists whose brand is well known and in high repute in these markets are desirous of being represented there by gentleman having other similar travelling agencies; knowledge of the drug trade essential, and of Hindustani a recommendation. Full particulars to 10/500, Office of this Paper.

INDIA.—A Pharmaceutical house with an established branch in India has vacancies for Travelling Representatives, for service in that country; qualification preferable. Apply, 10/309, Office of this Paper.

COUTH AFRICA.—Qualified Junior Assistant wanted for a good-class business; passage paid out; 3 years' agreement; good prospects. Apply by letter only to "C. M. N.," 10, Rectory Road, Beckenham, Kent.

#### SITUATIONS WANTED.

#### [HOME.]

#### RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.A.—ASSISTANT, lady, Minor, 24, tall, 5 years' good experience Dispensing and Retail, requires post; west country preferred. 32/20, Office of this Paper.

A.A. -LOCUM; experienced; reliable; 37; free September 11, "M.P.S.," 3, High Road, Willesden Green, N.W.

A 1 LOCUM; qualified; reliable (clients nine counties); anywhere, any time; vacant August 28 to September 2, September 18 onward. Photo, references, Chemist, 21, Priory Park Road, Kilburn.

A FULLY qualified Pharmacist, with thorough all-round experience of management, seeks a permanent position as Manager; highest reference to ability and character; disengaged. "H. G. H.," 16/G., Hampden House, N.W. 1.

A LIVE Assistant, 26, unqualified, wide experience in all branches; accurate Dispenser, excellent Salesman, Window-dresser, and Photographic knowledge; capable of taking charge; Midlands preferred; state terms, &c. 31/26, Office of this Paper.

A LOCUM; Hall; lady; testimonials; experienced in Doctor's to September 12 inclusive. 162, Devonshire Road, Forest Hill, S.E.

A QUALIFIED, 22, desires Locum or permanency; 7 years' good experience; knowledge Photography; excellent references; free now. Please state sealary. T. C. Robinson, 14, St. James's Road, Church, Lanes.

A LL-ROUND (unqualified, 34), married; used to up-to-date methods; quick Counter, telling Window-dresser; eight years last two situations; has had entire charge; would manage Drug Stores; London experience; disengaged. 31/6, Office of this Paper.

A N all-round man; qualified; permanency or Locum; excellent experience and references; disengaged 19th inst. "Chemist," 44, Elmhurst Road, Forest Gate, E.7.

A N Assistant, 22, referred in Materia Medica, desires situation; excellent references; knowledge of Photography; disengaged August 23. S. Howarth, c/o Dr. Maclean, Woolfield House, Wash Lane, Bury, Lancashire.

A S Branch Manager or Locum; qualified; 50; disengaged; permanency desired; London or Provincial; satisfactory references, varied experience. "Scot," (32/39), Office of this Paper.

A S Locum, age 40, disengaged August 26; terms according to hours and size of business; highest references; special low terms for near London. Locum, c/o Calvert, M.P.S., High Street, Welling. Kent.

A S Locum or permanency; disengaged shortly; excellent references and experience; moderate terms. "Locum," c/o Mr. Oram, Chemist, Romsey, Hants.

A S Manager or Locum, qualified, 40, all-round experience; competent and reliable; disengaged 21st; references; Lincs, Notts, Derby or adjacent preferred. Huggins, 48, Drummond Road, Skegness.

A SSISTANT, energetic, abstainer; Photography; West End years; 20 years' experience; A1 references. MacLellan, Arundel Gardens, W.11.

A SSISTANT, 37, married; educated Willesden Gramma School; experienced in Dental work. M. L. 15321, Office of this Paper.

A SSISTANT, unqualified, experienced Dispensing, Counter Photography, requires berth (permanent); salary moderate Waters, Scaweswater House, Idless, near Truro, Cornwall.

A SSISTANT or Locum, just completed four years' engagement; references; moderate salary. Bird, 2, Southa Cottages, Church Road, Knaphill, Woking.

A SSISTANT (22), reliable, careful, one subject to comple Minor, requires post, temporary or permanent, preferab much Dispensing, London or suburbs; interview. "M.," 39, 8 Mary's Square, S.E. 11.

A SSISTANT;; unqualified; middle-aged; single; 22 yea. London and country experience; good credentia "Chemicus," 48. Balham Park Road, Balham, S.W.

A SSISTANT; unqualified; 7 years' pre-war Dispensir Counter, Drug Store management, 3 years' post-w Wholesale Manager; some knowledge book-keeping; South p ferred. Clark, 6. Harley Road, Gt. Yarmouth.

A SSISTANT; qualified; capable of taking charge; Locum permanent; 6 years' varied experience, Counter, Phography, Dispensing; age 23, height 5 ft. 9 in. "T.,"; Denzil Avenue, Southampton.

A SSISTANT, unqualified, 20 years' experience, seeks sit tion; London or near; Photography, Homo., Veterina and quick Counter. J. Ash, 38, Lydford Road, W.9.

A SSISTANT, 19 (female), 4 years' London experience, requisituation, North Wales, Carnarvonshire preferred. Chem 28, East Hill, Wandsworth.

A SSISTANT, 20, tall, requires post in Lancashire; 6 yel experience; Photography. H. Ratchiffe, 60. Pickup R. Rishton, Blackburn.

A SSISTANT (23); unqualified; Counter and Dispensing; years' experience; disengaged; Midlands preferred.

A SSISTANT; unqualified; 20 years best London experies best refs.; wages 50s.—Richardson, 100, St. Leonard Str Bromley-by-Bow.

A SSISTANT (qualified), 31, single, abstainer, tall, required berth immediately; good-class London, Midland, and side experience; Dispensing, Connter, Window-dressing; excel preferences 32/24, Office of this Paper.

CAPABLE Assistant, 20 years' experience. "Statim," Alfred Road, Feltham, Middlesex.

CHEMIST seeks engagement, light duties or part-time; sa 7 proportionate; South London preferred, but not essen . "Stedfast," 31/11, Office of this Paper.

CHEMIST'S Assistant, 27; educated Bishop Stortford Collwar service, 4 years. M. L., 50785, Office of this Pap

COMPETENT Pharmacentist, excellent up-to-date bus a training, tall and energetic, free shortly if necessary, desposition, Retail (London or Lancashire), or Wholesale resentative for Ireland. "M," Williams's Pharmacy, Yarmon

COMPETENT Assistant (30) desires change; good-class rience; well recommended; open for offers. "Chal" 32/7, Office of this Paper.

DISENGAGED.—Locum or otherwise or Traveller; and Manager and Window-dresser; age 40; unqualified. "Bo", 345, Woolwich Road, Charlton, S.E. 7.

DISENGAGED.—Smart Counterman, accurate Dispenser; erience and ability none better; 45; London only; 33, "Unqualified," 33/13, Office of this Paper.

DISPENSER, 40, married; war service, 4 years; experier as dispenser; trained Male Nurse and Operating Room Indiant. M. L., 3421/22, Office of this Paper.

DISPENSER'S Assistant, 26, married; educated L.C.C. 100 of Pharmacy; war service, 2½ years; Drug Stores exper 20. L., 48877, Office of this Paper.

RNERGETIC Assistant, 23, used to busy retail, seek to gressive berth in an up-to-date Pharmacy; Dispersion Counter, Window-dressing, Photography. "Guaiacol," 4.00 files of this Paper.

EXPERIENCED qualified Pharmacist, with highest monials; accustomed to manage; disengaged. "M. 22, Elleson Road, Barnes, S.W.

T. requires part-time, two or three evenings or Saturday sternoon in West-End. P.C.B., 51/18, Office of this Paper.

PITAL.—Lady Dispenser (Hall); Minor student; Disensing experience, would work under Pharmacist; moderate ; hours essential for Part II. 33/15, Office of this Paper.

IDAY Relief Work wanted by experienced male Assistant; Lendon district; shop, Hospital or Doctor's; Hall and linor. 32/33, Office of this Paper.

JIDAYS or permanency; unqualified; highly recommended; listance immaterial; abstainer; disengaged. H., 39, St. as Road, Finsbury Park, N.

IOR Assistant, 20; tall, good appearance; Counter, Stock, ispensing and Photographic; excellent references; dised. Rhel, 29/37, Office of this Paper.

IOR (25), all-round experience; Window-dressing and hotography; excellent references; salary moderate. Apply, 31/8, Office of this Paper.

IOR Assistant, 20, seeks post in or near Nottingham; four ears' good class experience in Counter, Stock and Disig. Atherley, 36, Front Street, Arnold, Nottingham.

VIOR Assistant (lady), 20, tall, good appearance; 3½ years' experience; disengaged; London district preferred. Pouncy, amstour, Combe Down, Bath.

VIOR (20); good Dispenser, with good knowledge of Photography; quick Counter trade; excellent references; will trassonable salary. Hughes, 23, Carlton Avenue, Barrow-mess.

VIOR Assistant; 20; good appearance and address; 3 years' experience Counter, Stock, Dispensing, and Photographic; ent references; disengaged; reliable. 32/22, Office of this

VIOR or Improver; 21; good Counter, Disconsing, Stock and Photographic experience; 4 years' appenticeship; good ouces; disengaged; salary rec-sonable; Bristol or 30 miles red, not essential. 33/35, Office of this Paper.

D, 151, whose father is in the retail, wants a start. Gatelouse, 5, Brettell Street, London, S.E. 17.

DY Dispenser Book-keeper desires post with Doctor end of September; four years' experience. Apply, 29/38, Office of Paper.

DY Dispenser Book-keeper (Hall) requires post, Doctor, Institution; experienced; entire charge. Apply, M.B.S., 32, ridge Road, Maidstone.

CUM, qualified (elderly). Address, J. W. W., 90, Walliscote Road, Weston-super-Mare.

CUM or permanency, unqualified, age 28; 12 years' Discusing and Counter; London or South preferred; please state y. Apply, Smye, 49, Durham Street, Gosport.

CUM (31), qualified; disengaged September 4; abstainer; thoroughly experienced; excellent references; £5, travelling ness; London or South Coast. 29/40, Office of this Paper.

CUM, qualified, good experience and references; 36; abstainer; disengaged September 11. Locum, c/o Ferris, alst, New Cross, S.E.

CUM or permanency; unqualified; 38; experienced; Retail and Dispensing; small salary; references. Turner, 30, Cres-Road, Bromley, Kent.

OUM; qualified; experienced; disengaged August 26 to 31. "Chemist," 100a, Bellenden Road, Peckham.

CUM.—Assistant, unqualified, Leeds or district, for two weeks from September 4. 141, Leeds Terrace, Leeds.

CUM; Dispensing; ; anywhere till September 16; Doctors or Hospital; Had qualification. Miss Farrow. Cowley ego, Ash Vale, Surrey.

CUM; experienced; best roferences; capable sole charge; moderate safary; reliable and well recommended alified Chemist," 70, Northgate, Gloucester.

CUM (26); qualified; free from September 11. D. Wilson, 12, Maybank Road, South Woodford, N.E.

P.S., AGE 25, requires post as Assistant; Doctor or ences excellent; commence immediately. "Pharmacist," 23, rd Terrace, Hyde Park, W.

P.S. (27); thoroughly capable; N.H.I., brisk Retail, bd experience; energetic; A1 references. "Pharmacist," 30, eck Street, Elton, Bury.

MAJOR, 31, tall, unmarried, requires position as Manager in country business. 32/9, Office of this Paper.

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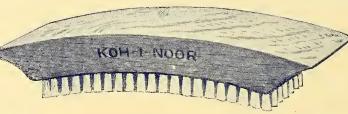
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